A Bibliography of Publications of Heinz Rutishauser

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254

E-mail: beebe@math.utah.edu, beebe@acm.org,
beebe@computer.org (Internet)
WWW URL: https://www.math.utah.edu/~beebe/

17 July 2025
Version 1.12

Abstract

This bibliography records publications of Heinz Rutishauser (30 January 1918–10 November 1970).

Title word cross-reference

1 [Nak66a, Rut66a]. 2 [Nak66b, Rut66b]. **$24.50** [G.70]. **$3.95** [Str61]. **$49** [I.91]. $\int e^{b(x+a\ cosx)}\,dx$ [Rut51a, Rut51a]. LR [Fra61, Rut58b, Rut60j, RS63, TT15]. n [Rut55a, Rut60e]. QD [AN68, Rut62g, Ban63a, Dmi13, AC10]. QR [Fra61, Fra62]. R^4 [Rut47b].

-algorithm [AC10, Dmi13, Rut62g]. **-Algorithmus** [Ban63a]. **-ter** [Rut55a, Rut60e]. **-th** [Rut55a, Rut60e]. **-Transformation** [Rut60j, Rut58b].

10.1.3 [Rut60i]. **104** [Rut62a]. **125** [Rut62b]. **135** [Sch69]. **150** [Rut63a, Rut63f]. **1960** [AGG60]. **1969** [Alb71]. **1980** [Ano80].

2 [Rut76b, S.78].

314 [Čul72b]. **34** [H.70]. **34-** [H.70]. **367** [Čul72a].

50 [Gep66].

6-ter [HRG59a]. **60** [BBG$^+$60a, BBG$^+$60b, BBG$^+$63c, BBG$^+$63a, BBG$^+$76, BHO$^+$67, Bec71, Čul72b, Čul72a, Gep66, GHL67, NBB$^+$60, NBB$^+$63, NBB$^+$65, NBB$^+$97, Rut63g, Rut63h, van19]. **6th** [HRG59a]. **6x** [Rut65].

AB19.3.10 [Myr65]. **Abbildungen** [Rut50b, Rut50c]. **Accelerating** [Rut58a]. **according** [Rut59e]. **Acquisition** [Spe98, Spe99]. **Adjoint** [EGRS59b, Str61]. **again** [Rut68c]. **ago** [Gut07]. **Akademie** [Gep66]. **Akademie-Verlag** [Gep66]. **Al** [Rut59b, Rut59b]. **Al-Salam** [Rut59b, Rut59b]. **Algebra** [Rut66d, Rut70a, WR71]. **algebraic** [Rut59d]. **ALGOL** [BBG$^+$63c, Bec71, Čul72b, Čul72a, Rut13, Gep66, BBG$^+$63c, BBG$^+$63a, BBG$^+$63b, BBG$^+$76, BHO$^+$67, GHL67, Nau60, NBB$^+$60, NBB$^+$63, NBB$^+$65, Nau68, Rut60b, Rut61, Rut63g, Rut63h, Rut65, Rut13, van19, BBG$^+$60a, BBG$^+$60b, NBB$^+$97]. **ALGOL-60** [BBG$^+$76, NBB$^+$65]. **ALGOL-procedure** [Rut61]. **Algorithm** [Ban64, Dmy15, Nak66a, Nak66b, AMM11, AC10, AL98, AN68, Ban60, Ban63a, Ban63b, Dmi13, Dmy16, Rut53, Rut54a, Rut54c, Rut54b, Rut55b, Rut56a, Rut57b, Rut57c, Rut62g, Rut63i, Rut68a, See82, TT15, Rut62a, Rut62b, Rut63a, Rut63f, Rut66a, Rut66b]. **algorithme** [Rut68a]. **Algorithmic** [BBG$^+$63c, BBG$^+$76, NBB$^+$60, NBB$^+$63, NBB$^+$97, BBG$^+$60a, BBG$^+$60b, BBG$^+$63a, BBG$^+$63b, Čul72b, Čul72a, Gep66, NBB$^+$65]. **Algorithmische** [BBG$^+$63c, Gep66]. **Algorithmus** [Ban60, Ban63a, Ban63b, Ban64, Nak66a, Nak66b, Rut53, Rut54a, Rut54c, Rut54b, Rut55b, Rut56a, Rut57b, Rut57c, Rut63i, Rut66a, Rut66b, See82]. **Algoritm** [Rut60g]. **Alps** [Rut13]. **also** [Čul72b, Čul72a]. **Analogon** [Rut54c]. **Analogue** [Fra61, Rut54c]. **Analysis** [Par74, SRS73, Gut07]. **analytic** [Rut50b, Rut50c]. **analytical** [Rut47b]. **analytiques** [Rut47b]. **analytischen** [Rut50b, Rut50c]. **Angelitch** [G.70]. **angewandte** [Tod52]. **angewandten** [Ste69]. **Anwendung** [Ban63a]. **Anwendungen** [Rut54a]. **Anwendungsgebiete** [Sch70, Sch69]. **Application** [Ban63a]. **Applications** [Rut67f, Rut54a]. **Approach** [Fay94, WE90]. **approximate** [BR68]. **Approximation** [Rut76a]. **Arbeit** [Rut51a, Rut59b, Rut13]. **Architectures** [RH00]. **aspects** [BRS63, Rut69b]. **Association** [Čul72b]. **Aumann** [G.70]. **Ausdehnung** [Rut63b]. **Automatic** [Bec71, Sch69, Sch70, AN68, Rut51c, Rut57a, Rut52a, Rut52b]. **automatico** [AN68]. **automatische** [Rut51c, Rut52a, Rut52b]. **automatischen** [Rut57a].

B [Čul72b, Čul72a, Gep66, H.70, Bec71, Sch70]. **Backus** [Čul72b, Čul72a, Gep66]. **Band**

[Bec71, Rut66a, Rut76a, Rut76b, Sch69, Sch70, Rut59c]. **Bandmatrix** [Rut66a]. **Bandmatrizen** [Rut59c]. **Basel** [Str61, Tod52]. **Basic** [Rut67a]. **Bauer** [Čul72b, Čul72a, G.70, Gep66, Sch69, Sch70, Rut69b]. **Bd** [Ste69]. **Bedeutung** [Rut56a]. **Begründung** [Ban60]. **beim** [Rut57a]. **Beitrage** [Rut53]. **Bemerkungen** [Rut51a, Rut55a, Rut59b, Rut60d, Rut60e]. **Berechnung** [HRG59b, Ban57]. **Bericht** [Rut58d, BBG$^+$63c, Gep66]. **Berlin** [Bec71, G.70, Gep66]. **Bernoulli** [AC10]. **Berücksichtigung** [Sch69, Sch70]. **Beschleunigung** [Rut58a]. **besonderer** [Sch69, Sch70]. **Besprungen** [Bec71]. **Bestimmung** [Ban63a, Rut58c, Rut55b, Rut66c]. **Betrachtungen** [Rut63c]. **Between** [Bau80]. **Beweis** [See82]. **Biografie** [Rut13]. **Biographies** [Wei88]. **biography** [Rut13]. **Biorthogonalisierungs** [Rut53]. **Biorthogonalisierungs-Algorithmus** [Rut53]. **biorthogonalization** [Rut53]. **Birkhauser** [I.91, Str61, Tod52]. **Book** [Alb71, Čul72b, Čul72a, G.70, H.70, I.91, Par74, S.78, Sch69, Sch70, Ste69, Ste78, Str61, Tod52, BSR53, BCK$^+$69, DCR$^+$52, GR58, HHR$^+$68, KPS$^+$67, LWRDR52, LRS$^+$59, LPA$^+$51, MKM$^+$58, MRDJ65, PBJ$^+$52, PRW$^+$56, RDBG$^+$60, RDWZ$^+$62, RFT$^+$57, SBRD$^+$55, SRP52, SGR$^+$67, SSG$^+$63, SRDH$^+$53, WRDG$^+$56, WRDF$^+$63, ZGR62, ZPS$^+$66, vMNJ$^+$51]. **Boston** [I.91]. **Boundary** [EGRS59b, Str61]. **Bounds** [SW81]. **Bruhat** [TT15]. **Buchbesprechung** [Gep66]. **Buchbesprechungen** [BSR53, BCK$^+$69, DCR$^+$52, GR58, HHR$^+$68, KPS$^+$67, LWRDR52, LRS$^+$59, LPA$^+$51, MKM$^+$58, MRDJ65, PBJ$^+$52, PRW$^+$56, RDBG$^+$60, RDWZ$^+$62, RFT$^+$57, SBRD$^+$55, SRP52, SGR$^+$67, SSG$^+$63, SRDH$^+$53, WRDG$^+$56, WRDF$^+$63, ZGR62, ZPS$^+$66, vMNJ$^+$51]. **Building** [Bru20a]. **Bulirsch** [G.70]. **Bulletin** [BBG$^+$63c, BBG$^+$63c].

C [Čul72b, Čul72a, Gep66]. **calcolo** [AN68]. **calcul** [Bos65, Rut64]. **calculating** [Rut51c, RSS51b, RSS51c, RSS51a, Rut52a, Rut52b, Rut64]. **calculation** [AN68, HRG59b, Rut51c, Rut52a, Rut52b, Rut57a, Ban57]. **called** [Rut62h]. **Carlitz** [Rut59b]. **cases** [Rut63i]. **Central** [Bau80]. **Century** [MHR80]. **Certain** [Ban64, Ban63b, Rut58a]. **Certification** [Nak66a, Nak66b]. **chastnykh** [Rut60g]. **Cholbd** [Nak66a]. **Cholesky** [AL98, Rut66a]. **class** [Rut58a]. **Cliffs** [Par74]. **closed** [RS48]. **cm** [G.70, H.70, I.91]. **cm.** [Par74]. **Collection** [MHR80]. **Comment** [Rut60f, Rut60a, Rut62c, Rut62d, Rut62e, Rut62f, Rut62c]. **Comments** [Myr65, Rut59b]. **Committee** [Nau60]. **Communications** [Čul72b]. **compound** [Rut62d]. **Computation** [Bec71, EGRS59b, Sch70, Bos65, Sch69, Str61]. **Computational** [Rut69b, Alb71]. **Computed** [SW81]. **Computer** [Bru20a, CRB24, Čul72a, Neu05, MKS98]. **Computers** [RH00]. **Computing** [BBR$^+$58, Bau80, Bru17, Čul72b, MHR80, Sch81, AL98, Roj98, Rut51b, RSS51b, RSS51c, RSS51a, Sor82, SF88]. **Concepts** [Rut67a]. **concernant** [SR61]. **Conclusions** [EGRS59a]. **Considerations** [Rut63c]. **contains** [RS48]. **contient** [RS48]. **Continued** [Rut58d, Rut58a]. **Contributions**

[Rut65, Rut53]. **controlled** [HRG59b, Rut51c, Rut51b, RSS51b, RSS51c, RSS51a, Rut52a, Rut52b]. **Convergence** [Ban64, Rut50a, RB55, Rut58a, Rut62g]. **convergent** [Rut60j]. **cooperate** [AC10]. **Correspondence** [Rut63d]. **courbe** [RS48]. **cubically** [Rut60j]. **curve** [RS48].

data [GH84]. **Declarations** [Rut67b]. **Definite** [Rut66a]. **definiter** [Rut66a]. **Deflation** [Rut59d, Rut59c]. **Delimiters** [Rut60c]. **Description** [BBR$^+$58, BHO$^+$67, Bec71]. **detection** [AC10]. **Détermination** [RB55, Rut55d, Rut58c, Rut55d, Rut55b, RB55, Rut66c]. **determine** [Ban63a]. **determining** [Rut69a]. **Development** [Bau80]. **device** [Rut51b]. **Devices** [Bru17, RSS51b, RSS51c, RSS51a]. **Difference** [Ban64, Ban60, Ban63b, Rut54a, Rut54c, Rut54b, Rut55b, Rut56a, Rut57b, Rut57c, Rut63i, Rut68a, See82]. **Differential** [Alb71, Rut52c, Rut55a, Rut56b, Rut60e, Rut76b]. **Differentialgleichungen** [Rut55a, Rut60e, Rut76b, Rut52c]. **Differenzen** [Ban60, Ban63b, Ban64, Rut54a, Rut54c, Rut55b, Rut56a, See82, Rut54b, Rut57b, Rut57c, Rut63i]. **Differenzen-Algorithmus** [Ban64, Rut54b, Rut57b, Rut57c, Rut63i]. **Digital** [Bau80, Bru20a, RSS51b, RSS51c, RSS51a]. **digitale** [RSS50a, RSS50b, RSS51b, RSS51c, RSS51a, Tod52]. **Dimensional** [Dmy15, Dmi13, HRG59b]. **Discovery** [Bru17]. **discussion** [Rut65]. **distributions** [Rut44]. **division** [Rut62e]. **DM** [Bec71, H.70]. **Documents** [Bru17]. **dont** [RS48]. **dqds** [AMM11]. **dummy** [Rut60f]. **d'une** [RS48, RB55, Rut55d].

E. [Rut66b]. **Early** [Bau80, Bru17, Sch81, Spe98, Spe99]. **Edited** [BBG$^+$63c]. **editor** [Čul72b]. **Effort** [Nau68]. **eigenfunctions** [HRG59a]. **Eigenfunktionen** [HRG59a]. **Eigenvalue** [Ban64, Fay94, Ban60, Ban63b, Rut58b, Rut59d, Rut76b]. **Eigenvalues** [EGRS59b, Rut66c, Ban57, Ban63a, Bos65, HRG59b, Rut55b, Rut55d, Rut58c, Rut64, Sor82, SF88, Str61, HRG59a]. **eigenvectors** [Rut55b, RB55]. **Eigenvektoren** [Rut55b]. **Eigenwerte** [Ban57, Ban63a, HRG59b, Rut55b, Rut58c, Rut66c, HRG59a]. **Eigenwertprobleme** [Ban63b, Ban64, Rut76b]. **eindimensionaler** [HRG59b]. **Einzeldarstellungen** [Sch69, Sch70]. **electronic** [RSS51b, RSS51c, RSS51a]. **elektronische** [RSS50a, RSS50b, RSS51b, RSS51c, RSS51a, Tod52]. **elementary** [Rut59d]. **Emden** [Rut51a]. **Engeli** [Str61]. **Engineer** [SS68]. **Englewood** [Par74]. **Equation** [Rut66a, Rut76a]. **equations** [Ban63a, Rut52c, Rut55a, Rut56b, Rut60e, Rut76b, Alb71]. **Erfahrungen** [Rut51b]. **Erinnerung** [BBG$^+$63c]. **ERMETH** [Neu05, Rut55c, Spe98, Spe99, Bru20a]. **Error** [SW81]. **Erste** [Rut51b]. **Erweiterung** [Ban63b]. **Essays** [MHR80]. **estate** [GMŠ77]. **estimation** [MKS98]. **Europe** [Bau80]. **evaluation** [Rut62f]. **exact** [Zie81b, Zie81a].

exakten [Zie81a]. **experiences** [Rut51b, Bos65]. **experiments** [Bos65]. **Expressions** [Rut60h, Rut67c, Rut60a, Rut62f]. **Extension** [Ban63b, Rut63b].

F [Čul72b, Čul72a, G.70, Gep66, Sch69, Sch70]. **F.** [Rut69b, Sch69, Sch70]. **factorization** [AL98]. **Facts** [Bru17]. **Failures** [Nau68]. **families** [Rut47a, Rut47b, Rut50b, Rut50c]. **familles** [Rut47a, Rut47b]. **February** [AGG60]. **fermée** [RS48]. **First** [Bru20a, Neu05, RH00, van19, Rut51b]. **Flows** [WE90]. **Folgen** [Rut50b, Rut50c]. **fonctions** [Rut47a]. **Formel** [Rut56a]. **formula** [Rut56a]. **fr.** [Tod52]. **Fractions** [Rut58d, Rut58a]. **French** [Bos65, Rut47a, Rut47b, RS48, RB55, Rut55d, Rut64, Rut68a, SR61]. **functions** [AN68, HRG59a, Rut47a, Rut50b, Rut50c]. **Funktionen** [HRG59a, Rut50b, Rut50c]. **funzioni** [AN68].

G [G.70, H.70]. **Gauss** [Rut59e, Rut59e]. **Gautschi** [I.91]. **genäherte** [BR68]. **Generalization** [Dmy15, Rut58d, Dmy16]. **Generalizations** [Zie81b, Dmi13, Zie81a]. **generation** [AN68]. **generazione** [AN68]. **German** [I.91, BBG$^+$63c, Ban57, Ban60, Ban63a, Ban63b, Ban64, BSR53, Bec71, BCK$^+$69, BR68, DCR$^+$52, GMŠ77, GR58, HRG59a, HRG59b, HHR$^+$68, KPS$^+$67, LWRDR52, LRS$^+$59, LPA$^+$51, MKM$^+$58, MRDJ65, Nak66a, Nak66b, PBJ$^+$52, PRW$^+$56, Roj98, RDBG$^+$60, RDWZ$^+$62, Rut44, Rut50b, Rut50c, Rut50a, Rut51c, Rut51a, Rut51b, RSS51b, RSS51c, RSS51a, Rut52a, Rut52b, Rut52c, Rut53, Rut54a, Rut54c, Rut54b, Rut55b, Rut55a, Rut56a, RFT$^+$57, Rut57b, Rut57c, Rut57a, Rut58c, Rut58a, Rut59b, Rut59c, Rut59e, Rut60d, Rut60e, Rut60j, Rut63b, Rut63c, Rut63i, Rut66a, Rut66b, Rut66c, RSS68, Rut69a, RSS72, Rut76a, Rut76b, Rut13, Rut58d, SS68, SBRD$^+$55, SRP52, See82, SGR$^+$67, SSG$^+$63, SRDH$^+$53, WRDG$^+$56, WRDF$^+$63, ZGR62, Zie81a, ZPS$^+$66]. **German** [vMNJ$^+$51]. **gewissen** [Rut58a]. **gewisser** [Ban63b, Ban64]. **gewöhnlicher** [Rut52c, Rut55a, Rut60e]. **Ginsburg** [Str61]. **glatten** [Rut60d]. **Gleichungssystem** [Rut66a]. **Gleichungssysteme** [Rut76a]. **Gradient** [Rut59a]. **Graeffe** [Rut62g]. **Graeffe-type** [Rut62g]. **Grau** [Bec71]. **Green** [Čul72b, Čul72a, Gep66]. **Grundlehren** [Bec71, Sch69, Sch70]. **Gutknecht** [S.78].

H [Alb71, Bec71, Čul72b, Čul72a, G.70, Gep66, H.70, Par74, Sch69, Sch70, Ste69, Str61, Tod52]. **H.** [H.70, Myr65, Par74, Ste69]. **Hadamard** [AC10]. **Hall** [Par74]. **Handbook** [Rut66d, Rut70a, Bec71, Sch69, Sch70]. **Hans** [S.78]. **Hans-Rudolf** [S.78]. **Heidelberg** [Bec71]. **Heinz** [Anoxx, GMŠ77, Rut13, Ste78, Ano10, Bau71, Bau05, GMŠ77, I.91, OR10, Rut13, S.78]. **help** [Rut55b]. **Helped** [CRB24]. **Henrici** [S.78]. **Herausgegeben** [BBG$^+$63c]. **Hertelendy** [Par74]. **Hg** [Sch70]. **High** [Rut13]. **Hilfe** [Rut55b]. **Hilfsmittel** [G.70, SS68]. **Hill** [Bec71]. **History** [Bru17, MHR80, RH00]. **Hochalpen** [Rut13]. **Householder** [Sch69, Sch70].

ibid [Čul72a]. **IBM** [CRB24]. **ihre** [Rut56a]. **II** [RSS50b]. **III** [G.70, RSS51b, SS68]. **imperfections** [Rut60b]. **improvement** [Rut50a]. **Industry** [Bru20b]. **infinitesimal** [Rut54c]. **infinitesimales** [Rut54c]. **Ingenieurs** [G.70, SS68]. **Input** [Rut67d]. **Insights** [van19]. **Instabilität** [Rut52c]. **instability** [Rut52c, Rut56b]. **Institut** [Tod52]. **Institute** [Spe98, Spe99]. **integral** [Ban63a]. **Integralgleichungen** [Ban63a]. **integrating** [Rut52c]. **Integration** [Rut52c, Rut55a, Rut60e, Rut56b, SR61, SR61]. **Interference** [Rut61]. **Interpolation** [Rut76a, Rut60d, BR68, Rut60d]. **Introduction** [Rut67e]. **Invariant** [SW81]. **Inversen** [Zie81a]. **inverses** [Zie81b, Zie81a]. **inversion** [Rut59e]. **Italian** [AN68]. **iteration** [Rut63c, Rut69b, Rut70a, Rut70b, Rut71b, TT15]. **Iterative** [EGRS59b, RB55, Str61, RB55]. **IV** [RSS51c].

J [Čul72b, Čul72a, G.70, Gep66, Par74, Sch69, Sch70]. **J.** [Čul72b, Čul72a]. **Jacobi** [GH84, Rut62a, Rut63e, Rut66d, Rut66e, Rut71a]. **Jordan** [Rut59e]. **Journal** [Čul72a]. **justification** [Ban60].

K. [Rut51a, Rut51b]. **Katz** [Čul72b, Čul72a, Gep66]. **Kentniss** [Rut53]. **Kerner** [Gep66]. **Kettenbrüche** [Rut58d]. **Kettenbrüchen** [Rut58a]. **Klasse** [Rut58a]. **Known** [Bru17, Bru20b]. **Konrad** [Roj98, CRB24, Roj98]. **konvergente** [Rut60j]. **Konvergenz** [Ban64, Rut58a]. **Konvergenzverbesserung** [Rut50a]. **kubisch** [Rut60j]. **Kugelfläche** [Rut44]. **Kunzi** [G.70].

L [Čul72b, Čul72a, G.70, Gep66, Rut69b, Sch69, Sch70]. **L'algoritmo** [AN68]. **Lanczos** [Rut53]. **Langmaack** [Bec71]. **Language** [BBG$^+$63c, BBG$^+$76, BBR$^+$58, NBB$^+$60, NBB$^+$63, NBB$^+$97, BBG$^+$60a, BBG$^+$60b, BBG$^+$63a, BBG$^+$63b, Čul72b, Čul72a, Gep66, NBB$^+$65]. **Lauchli** [S.78]. **least** [Rut68c]. **Lectures** [Rut90, I.91, Rut76a, Rut76b]. **Lehre** [GMŠ77]. **Leitfaden** [Ste69]. **Letter** [Nau60, Rut60b]. **Letters** [AGG60]. **Linear** [Ban64, Rut66a, Rut66d, Rut70a, WR71, Ban63b, HRG59a]. **linearen** [HRG59a]. **linearer** [Ban63b, Ban64]. **Lineares** [Rut66a]. **Lösung** [Rut51a]. **Ludgate** [CRB24].

M [Čul72b, Čul72a, Gep66, Str61]. **Machinery** [Čul72b]. **machines** [Roj98, Rut51c, RSS51b, RSS51c, RSS51a, Rut52a, Rut52b]. **manifolds** [MKS98]. **maps** [Rut50b, Rut50c]. **Martin** [S.78]. **mathematical** [SS68]. **Mathematics** [Rut90, Rut76a, Rut76b, I.91]. **Mathematik** [Čul72b, Čul72a, Rut76a, Rut76b, S.78, Tod52, Ste69, Ste78]. **Mathematische** [G.70, SS68]. **mathematischen** [Bec71, Sch69, Sch70]. **matrice** [RB55, Rut55d]. **Matrices** [Rut68b, Rut71a, SRS73, GH84, Rut58c, Rut59c, RS63, Rut64, Rut66d, Rut66e, RSS68, Rut70a, Rut70b, Rut71b, RSS72, Sor82, SF88, Par74, Rut66c].

Matrix [Ban57, Rut55b, Rut66a, RSS68, Ban60, RB55, Rut55d, Rut59e, Zie81b, Zie81a]. **Matrixeigenwertprobleme** [Ban60]. **Matrizen** [RSS68, Ste69, H.70, Rut58c, Rut66c, RSS68, RSS72, Alb71]. **Matrizen-Numerik** [RSS68]. **Matrizeninversion** [Rut59e]. **McCarthy** [Čul72b, Čul72a, Gep66]. **MDN** [Gep66]. **meaning** [Rut56a]. **Mechanik** [Ste69]. **mehrerer** [Rut50b, Rut50c]. **Members** [Nau60]. **memory** [BBG$^+$63c]. **meromorphen** [Rut50b, Rut50c]. **méromorphes** [Rut47a]. **meromorphic** [Rut50b, Rut50c]. **Method** [Rut71a, Ban57, Bos65, Rut50a, RB55, Rut55d, RS63, Rut64, Rut66d, Rut66e, Rut69b, Rut70a, Rut70b, Rut71b, Sor82, SF88]. **méthode** [Bos65, RB55, Rut55d, Rut64, Rut50a]. **Methoden** [Rut52c]. **Methods** [Alb71, EGRS59b, Rut59a, Rut52c, Rut56b, Str61]. **metomorphic** [Rut47a]. **Miscellaneous** [Rut67f]. **Mitarb** [Gep66]. **Mitchell** [Alb71]. **Mitteilungen** [Tod52]. **Modelle** [HRG59b]. **models** [HRG59b]. **modification** [Rut62g]. **Modified** [BBG$^+$76, Sor82, SF88]. **molecular** [HRG59b]. **Molekel** [HRG59b]. **Molekel-Modelle** [HRG59b]. **Moore** [Zie81a, Zie81b, Zie81a]. **Motion** [MKS98]. **multidimensional** [Dmy16]. **My** [Bau02, Bau03, Bau11].

N [Par74]. **nach** [Rut59e, Rut66a, Rut66b]. **Nachlass** [GMŠ77]. **Naur** [Čul72b, Čul72a, Gep66, AGG60, BBG$^+$63c]. **nel** [AN68]. **Newton** [Rut50a]. **Newtonsche** [Rut50a]. **No** [BBG$^+$63c, Bru20b, Čul72a, Tod52]. **non** [Rut64]. **note** [AMM11, Kas57]. **Notes** [Rut60d, SR61]. **Nullstellenbestimmung** [Rut69a]. **Numerical** [Gut07, I.91, Rut68a, Rut90, SRS73, BRS63, Bos65, Rut55a, Rut60e, Rut76a, Rut76b, SR61, GMŠ77, Par74]. **numerically** [GH84]. **numerics** [RSS68, RSS68, RSS72, Rut13]. **Numerik** [Ste69, H.70, RSS68, RSS72, Rut13, Alb71]. **numérique** [SR61]. **numériques** [Bos65, Rut68a]. **Numerische** [Čul72b, Čul72a, S.78, Rut76a, Rut76b, Ste78, GMŠ77]. **numerischen** [Rut55a, Rut60e].

O [Gep66]. **October** [Ano80]. **Oh** [Wei88]. **Old** [van19]. **Oliver** [Sch70]. **Olver** [Sch69]. **Once** [Rut68c]. **one** [HRG59b]. **one-dimensional** [HRG59b]. **Operation** [Spe98, Spe99]. **Operatoren** [Ban63b, Ban64]. **Operators** [Ban64, Ban63b]. **optimization** [MKS98]. **order** [Rut55a, Rut60e]. **ordinary** [Rut52c, Rut55a, Rut56b, Rut60e]. **Ordnung** [Rut55a, Rut60e]. **ornach** [Nak66b]. **Orthogonal** [Rut66c]. **orthogonaler** [Rut66c]. **Orthonormalization** [Rut66b]. **Orthonormierung** [Rut66b]. **oscillator** [HRG59a]. **Oszillators** [HRG59a]. **Output** [Rut67d]. **overrelaxation** [EGRS59c].

P [BBG$^+$63c, Čul72b, Čul72a, G.70, Gep66, Par74]. **P.** [BBG$^+$63c]. **Paper** [CRB24]. **Part** [Bec71, Fra61, Sch70, Fra62, Rut76a, SS68]. **Partial** [Alb71]. **Patent** [CRB24]. **patterns** [Rut63e]. **Penrose** [Zie81b, Zie81a]. **Penrose-Inversen** [Zie81a]. **Percy** [CRB24]. **Perlis**

[Čul72b, Čul72a, Gep66]. **Peter** [S.78, AGG60]. **Pioneers** [Wei88]. **plan** [Rut51c, Rut52a, Rut52b]. **Planning** [Spe98, Spe99]. **plusieurs** [Rut47a]. **point** [Rut44]. **Polynomen** [Rut69a]. **polynomials** [Rut69a]. **positiv** [Rut66a]. **positiv-definiter** [Rut66a]. **Positive** [Rut66a]. **Potenz** [HRG59a]. **pour** [Bos65, Rut55d, Rut64]. **power** [HRG59a]. **pp** [Čul72b, Čul72a, G.70, H.70, I.91, Par74, Str61, Tod52]. **Preis** [Gep66]. **Preliminary** [AGG60, Rut58d]. **Prentice** [Par74]. **Prentice-Hall** [Par74]. **Preparation** [Bru20a]. **preparatory** [Rut57a]. **Price** [G.70, H.70, I.91]. **principle** [Rut63b]. **Prinzips** [Rut63b]. **problem** [Rut68c, Rut69a]. **Problematik** [Rut69a]. **Problems** [Ban64, EGRS59b, Fay94, Ban60, Ban63b, Rut58b, Rut59d, Rut76b, Str61]. **procedure** [Rut61, Rut62h, HRG59b]. **Procedures** [Rut63h, Rut67g, GMŠ77, Rut63g]. **Processes** [BBR$^+$58]. **production** [Rut51c, Rut52a, Rut52b]. **program** [HRG59b, Rut51c, Rut51b, Rut52a, Rut52b, RSS51b, RSS51c, RSS51a]. **program-controlled** [HRG59b, Rut51c, Rut51b, Rut52a, Rut52b, RSS51b, RSS51c, RSS51a]. **Programmgesteuerte** [RSS50a, RSS50b, RSS51b, RSS51c, RSS51a, Tod52]. **programmgesteuerten** [HRG59b, Rut51c, Rut51b, Rut52a, Rut52b]. **Programming** [Rut55c]. **Programs** [van19]. **proof** [See82]. **properties** [Rut68a]. **Proposal** [BBR$^+$58]. **proposals** [Myr65]. **propres** [Bos65, RB55, Rut55d, Rut64]. **propriétés** [Rut68a]. **Prozeduren** [GMŠ77]. **Punktverteilungen** [Rut44].

qd [Dmy15, Dmy16]. **qd-Algorithm** [Dmy15, Dmy16]. **quadratic** [RB55]. **quadratique** [RB55]. **Quadratur** [BR68]. **quadrature** [BRS63, BR68]. **Quadratwurzeliteration** [Rut63c]. **Quelques** [Bos65]. **Quotient** [Ban64, Ban60, Ban63b, Rut54a, Rut54c, Rut54b, Rut55b, Rut56a, Rut57b, Rut57c, Rut63i, Rut68a, See82]. **quotient-difference** [Ban60]. **Quotienten** [Ban60, Ban63b, Ban64, Rut54b, Rut57b, Rut57c, Rut63i, Rut54a, Rut54c, Rut55b, Rut56a, See82]. **Quotienten-Differenzen-Algorithmus** [Ban60, Ban63b, Rut54a, Rut54c, Rut55b, Rut56a, See82].

R [Alb71, G.70, H.70, Par74, Ste69]. **R.** [G.70]. **radius** [RS48]. **Rare** [Bru17]. **rayon** [RS48]. **raznostei** [Rut60g]. **Real** [Rut71a, Ban57, Rut66d, Rut66e, SF88]. **Rechengerät** [Rut51b]. **Rechengeräte** [RSS50a, RSS50b, RSS51b, RSS51c, RSS51a, Tod52]. **Rechenmaschinen** [Roj98, RSS50a, RSS50b, RSS51b, RSS51c, RSS51a, Tod52, Rut51c, Rut52a, Rut52b]. **Rechenplanfertigung** [Rut51c, Rut52a, Rut52b]. **Rechnen** [Rut57a]. **reconstruction** [GH84]. **Recursive** [Rut63h, Rut63g]. **Reduction** [Rut62a]. **reellen** [Ban57]. **Refined** [EGRS59b, Str61]. **Regeln** [See82]. **Relations** [Rut60h, Rut60a]. **Reliable** [AC10]. **Remark** [Rut60c, Rut62h, Rut63f]. **Remarks** [Rut51a, Rut55a, Rut60e]. **Remarques** [SR61]. **removing** [Rut60b]. **Reply**

[Rut60i]. **Report** [AGG60, BBG+60a, BBG+60b, BBG+76, NBB+60, NBB+63, NBB+97, Rut58d, BBG+63a, BBG+63b, Čul72a, NBB+65, Rut60b, BBG+63c, Čul72b, Gep66]. **representations** [Rut47b, Rut47b]. **Review** [Čul72b, Čul72a, G.70, H.70, I.91, Par74, S.78, Sch69, Sch70, Ste69, Ste78, Str61, Tod52]. **reviews** [Alb71, BSR53, BCK+69, DCR+52, GR58, HHR+68, KPS+67, LWRDR52, LRS+59, LPA+51, MKM+58, MRDJ65, PBJ+52, PRW+56, RDBG+60, RDWZ+62, RFT+57, SBRD+55, SRP52, SGR+67, SSG+63, SRDH+53, WRDG+56, WRDF+63, ZGR62, ZPS+66, vMNJ+51, Bec71]. **Revised** [BBG+63a, BBG+63b, NBB+63, NBB+65, NBB+97, Čul72a]. **Romberg** [Rut63b]. **Rombergschen** [Rut63b]. **root** [AC10, Rut63c]. **rotation** [Rut63e]. **rotations** [Rut59d]. **Rudolf** [S.78]. **rule** [See82]. **Russian** [NBB+65]. **Ruthishauser** [Tod52]. **Rutishauser** [Alb71, Ban60, Ban63a, Ban63b, Ban64, Bec71, Čul72b, Čul72a, G.70, Gep66, H.70, I.91, Par74, S.78, Sch69, Sch70, Ste69, Str61, Zie81a, AMM11, AC10, AL98, Ano80, Ano10, Anoxx, AN68, Ban57, Ban60, Ban63a, Ban63b, Ban64, Bau71, Bau80, Bau02, Bau03, Bau05, Bau11, Bos65, Dmi13, Dmy15, Dmy16, Fay94, GMŠ77, Kas57, Myr65, OR10, Rut13, See82, Sor82, SF88, Ste78, TT15, WE90, Zie81b, Zie81a].

S [Bec71, Gep66, Sch69, Sch70]. **Salam** [Rut59b, Rut59b]. **Samelson** [Čul72b, Čul72a, G.70, Gep66, Sch69, Sch70]. **Sauer** [G.70]. **Scarcely** [Bru17]. **Scharen** [Rut50b, Rut50c]. **schiefsymmetrischer** [Rut58c]. **Schmidt** [Rut66b]. **Schwarz** [Alb71, H.70, Par74, S.78, Ste69]. **Schweizer** [Rut13]. **Self** [EGRS59b, WE90, Str61]. **Self-Adjoint** [EGRS59b, Str61]. **Self-Similar** [WE90]. **sequences** [Rut47a, Rut47b, Rut50b, Rut50c]. **Series** [Rut66d, Rut70a]. **several** [Rut47a, Rut50b, Rut50c]. **shift** [AMM11, AL98]. **Similar** [WE90]. **Simultaneous** [Rut70a, Rut70b, Rut71b, Rut69b]. **singular** [AMM11]. **skew** [Rut58c]. **skew-symmetric** [Rut58c]. **smooth** [Rut60d]. **Solution** [EGRS59b, Rut58b, Rut51a, Rut59d, Str61]. **Some** [Rut55c, Bos65]. **Sonderfälle** [Rut63i]. **sowie** [Rut50b, Rut50c]. **special** [AN68, Rut63i]. **speciali** [AN68]. **spectral** [GH84]. **Speiser** [Tod52]. **sphere** [RS48, RS48]. **spherical** [Rut44]. **Sprache** [BBG+63c, Gep66]. **Springer** [G.70, Bec71]. **Springer-Verlag** [G.70, Bec71]. **square** [Rut63c, Rut68c]. **Stabile** [Rut63i]. **stable** [GH84, Rut63i]. **statement** [Rut60f, Rut62h]. **Statements** [Rut67h, Rut62c, Rut62d]. **Stiefel** [Alb71, H.70, Par74, Sch69, Sch70, Ste69, Str61, Tod52, MKS98]. **Stoer** [G.70]. **strategy** [AL98]. **Structure** [van19]. **Stuttgart** [H.70, Str61]. **Subspaces** [SW81]. **Successes** [Nau68]. **suites** [Rut47a, Rut47b]. **Superfluous** [Rut60c]. **Supplement** [BBG+63c]. **surface** [Rut44, RS48]. **SVD** [AL98]. **Swiss** [Bru20a, Bru20b, Tod52, Neu05, Rut13]. **Switzerland** [Bru17, Sch81]. **symétriques** [Rut64]. **Syminv2** [Rut63a, Rut63f]. **Symmetric** [Par74, Rut66a, Rut71a, SRS73, Rut58c, RS63, Rut66d, Rut66e, RSS68, Rut70a, Rut70b, Rut71b, RSS72, Sor82, SF88]. **Symmetrischer**

[Alb71, H.70, Rut66a, RSS68, RSS72, Ste69]. **Symposium** [Ano80]. **System** [van19]. **Systems** [Rut66a, Rut76a]. **Szabo** [G.70].

T [G.70]. **teaching** [GMŠ77]. **Techniques** [Rut55c]. **Teil** [SS68]. **ter** [HRG59a, Rut55a, Rut60e]. **Test** [Rut68b, Zie81b, Zie81a]. **Testmatrix** [Zie81a]. **Teubner** [H.70]. **Th** [Str61, Rut55a, Rut60e]. **theorem** [Kas57]. **Theory** [Rut59a]. **There** [Bru20b]. **thermodynamic** [HRG59a]. **thermodynamische** [HRG59a]. **Thwart** [CRB24]. **tools** [SS68]. **Transformation** [Fra61, Fra62, Rut58b, Rut60j, RS63, Rut60j]. **translated** [I.91, Par74]. **Translation** [Bec71, GHL67]. **tridiagonal** [SF88]. **Turanski** [BBG$^+$63c, BBG$^+$63c]. **Twentieth** [MHR80]. **Two** [Dmi13, Dmy15]. **Two-Dimensional** [Dmy15, Dmi13]. **Type** [Rut62h, Rut62g].

U [Bec71, Gep66]. **Übers** [Gep66]. **understanding** [Rut53]. **Unitary** [Fra61]. **Universal** [BBR$^+$58]. **Unknown** [Bru17]. **unsymmetrical** [Rut64]. **Use** [Rut63h, Rut63g]. **using** [Ban57, Rut66a].

valeurs [Bos65, Rut55d, Rut64]. **Value** [EGRS59b, Str61]. **values** [AMM11]. **Variabeln** [Rut50b, Rut50c]. **variables** [Rut47a, Rut50b, Rut50c]. **variant** [Rut60j]. **Variante** [Rut60j]. **Vauquois** [Čul72b, Čul72a, Gep66]. **vecteurs** [RB55]. **Vectors** [Rut66b]. **Vektoren** [Rut66b]. **Verallgemeinerung** [Rut58d]. **Verallgemeinerungen** [Zie81a]. **Verfahren** [Ban57, HRG59b]. **Verlag** [G.70, Gep66, H.70, Str61, Bec71]. **vi** [Gep66]. **vision** [MKS98]. **Vol** [Bec71, Sch69, Sch70, Čul72b, Čul72a]. **Vols** [S.78]. **Volume** [Rut76b]. **Vorbereitungsarbeit** [Rut57a]. **Vorläufiger** [Rut58d]. **Vorlesungen** [S.78, Rut76a, Rut76b, Ste78].

W [Čul72b, Čul72a, Gep66, Sch70]. **Walter** [I.91]. **Wegstein** [Čul72b, Čul72a, Gep66]. **Weightcoeff** [Rut62b]. **Well** [Bru20b, Rut50b, Rut50c]. **Well-Known** [Bru20b]. **whose** [RS48]. **Wijngaarden** [Čul72b, Čul72a]. **Wijngarden** [Gep66]. **William** [BBG$^+$63c, BBG$^+$63c]. **Wissenschaften** [Bec71, Sch69, Sch70]. **Woodger** [Čul72b, Čul72a, Gep66]. **work** [Rut51a, Rut57a, Rut59b, Rut13]. **Wronski** [Rut56a, Rut56a].

X [Bec71]. **xi** [Par74]. **XII** [Bec71]. **xv** [I.91]. **xviv** [G.70].

year [Bau03]. **Years** [Sch81, Spe98, Spe99, Bau02, Bau11, Gut07]. **York** [Bec71]. **Young** [EGRS59c].

Z4 [Rut51b, Rut51b, Spe98, Spe99]. **zero** [Rut62e]. **zeros** [Rut69a]. **Zertifikat** [Nak66a, Nak66b]. **zum** [Rut54c]. **Zur** [BBG$^+$63c, Rut13, Ban63a, HRG59b, Rut51a, Rut52c, Rut53, Rut55a, Rut60d, Rut60e, Rut63c, Ban60, Rut58c, Rut59e, Rut69a]. **Zurich** [Ano80, Gut07]. **Zuse** [Bau80, CRB24,

Roj98, Rut51b].

References

Allouche:2010:RRD

[AC10] Hassane Allouche and Annie Cuyt. Reliable root detection with the *qd*-algorithm: When Bernoulli, Hadamard and Rutishauser cooperate. *Applied Numerical Mathematics: Transactions of IMACS*, 60(12):1188–1208, December 2010. CODEN ANMAEL. ISSN 0168-9274 (print), 1873-5460 (electronic).

Arden:1960:LPR

[AGG60] B. Arden, B. Galler, and R. Graham. Letters: Preliminary report (February 4, 1960) of Peter Naur. *Communications of the ACM*, 3 (6):A13, June 1960. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). See [NBB+60].

Andrisani:1998:SCS

[AL98] E. Andrisani and G. Di Lena. A strategy for computing the shift in the Cholesky–Rutishauser algorithm for the SVD factorization. *Rendiconti di matematica e delle sue applicazioni (1981)*, 18(4): 725–748 (1999), 1998. CODEN RNMTAN. ISSN 1120-7183.

Albaseny:1971:BRN

[Alb71] E. L. Albaseny. Book reviews: *Numerik Symmetrischer Matrizen*, by H. Rutishauser, E. Stiefel and H. Schwarz, 1968; *Computational Methods in Partial Differential Equations*, by A. R. Mitchell, 1969. *The Computer Journal*, 14(4):374, November 1971. CODEN CMPJA6. ISSN 0010-4620 (print), 1460-2067 (electronic). URL `http://www3.oup.co.uk/computer_journal/hdb/Volume_14/Issue_04/tiff/374.tif`.

Aishima:2011:NDA

[AMM11] Kensuke Aishima, Takayasu Matsuo, and Kazuo Murota. A note on the dqds algorithm with Rutishauser's shift for singular values. *Japan Journal of Industrial and Applied Mathematics*, 28(2):251–262, ???? 2011. CODEN JAPJI7. ISSN 0916-7005 (print), 1868-937x (electronic). URL `http://link.springer.com/article/10.1007/s13160-011-0037-x`.

Ascari:1968:LRG

[AN68] A. Ascari and P. G. Novario. L'algoritmo *QD* di Rutishauser e la generazione di funzioni speciali nel calcolo automatico. (Ital-

ian) [The QD algorithm of Rutishauser and the generation of special functions in automatic calculation]. *Calcolo: a quarterly on numerical analysis and theory of computation*, 5(1):162–173, ???? 1968. CODEN CALOBK. ISSN 0008-0624 (print), 1126-5434 (electronic). URL `http://link.springer.com/article/10.1007/BF02576063`.

Anonymous:1980:RSZ

[Ano80] Anonymous. Rutishauser Symposium, Zurich, October 15–17, 1980. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 31(2):304, March 1980. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01590756`.

Anonymous:2010:HR

[Ano10] Anonymous. Heinz Rutishauser. Historisches Lexikon der Schweiz (HLS) Web site, July 12, 2010. URL `https://hls-dhs-dss.ch/de/articles/031649/2010-07-12/`.

Anonymous:20xx:RH

[Anoxx] Anonymous. Rutishauser, Heinz (1918–1970). Swiss elites Web site., 20xx. URL `https://www2.unil.ch/elitessuisses/index.php?page=detailPerso&idIdentite=77302`.

Bandemer:1956:BRE

[Ban57] Hans Bandemer. Berechnung der reellen Eigenwerte einer reellen Matrix mit dem Verfahren von Rutishauser. (German) [Calculation of the real eigenvalues of a real matrix using the Rutishauser method]. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe*, 6:807–814, 1956–1957. ISSN 0138-1504.

Bandemer:1960:BQD

[Ban60] H. Bandemer. Zur Begründung des Quotienten-Differenzen-Algorithmus von Rutishauser für Matrixeigenwertprobleme. (German) [On the justification for Rutishauser's quotient-difference algorithm for matrix eigenvalue problems]. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe*, 9:263–268, 1960. ISSN 0138-1504.

Bandemer:1963:AAR

[Ban63a] Hans Bandemer. Anwendung des QD-Algorithmus von Rutishauser zur Bestimmung der Eigenwerte von Integralgleichungen. (Ger-

man) [Application of the QD algorithm by Rutishauser to determine the eigenvalues of integral equations]. *Wiss. Z. Techn. Univ. Dresden*, 12:112–114, 1963. ISSN 0043-6925.

Bandemer:1963:EQD

[Ban63b] Hans Bandemer. Erweiterung des Quotienten-Differenzen-Algorithmus von Rutishauser auf Eigenwertprobleme gewisser linearer Operatoren. (German) [Extension of the quotient–difference algorithm of Rutishauser to eigenvalue problems of certain linear operators]. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe*, 12:235–249, 1963. ISSN 0138-1504.

Bandemer:1963:KQD

[Ban64] Hans Bandemer. Über die Konvergenz des Quotienten–Differenzen-Algorithmus von Rutishauser für Eigenwertprobleme gewisser linearer Operatoren. (German) [On the convergence of Rutishauser's quotient–difference algorithm for eigenvalue problems of certain linear operators]. *Mathematische Nachrichten*, 27: 353–375, 1963–1964. CODEN MTMNAQ. ISSN 0025-584X.

Bauer:1971:HR

[Bau71] F. L. Bauer. Heinz Rutishauser (10.11.1970). *Computing*, 7(1–2):129–130, March 1971. CODEN CMPTA2. ISSN 0010-485X (print), 1436-5057 (electronic). URL `https://link.springer.com/article/10.1007/BF02279949`.

Bauer:1980:BZR

[Bau80] Friedrich L. Bauer. Between Zuse and Rutishauser — the early development of digital computing in Central Europe. In Metropolis et al. [MHR80], pages 505–524. ISBN 0-12-491650-3, 1-4832-9668-7 (e-book). LCCN QA75.5 .I63 1976. URL `http://www.sciencedirect.com/science/article/pii/B978012491650050037X`. Original versions of these papers were presented at the International Research Conference on the History of Computing, held at the Los Alamos Scientific Laboratory, 10–15 June 1976.

Bauer:2002:MYR

[Bau02] Friedrich L. Bauer. My years with Rutishauser. In ????, editor, *LATSIS Symposium 2002: ETH, Zürich, Switzerland*, page ?? ????, ????, 2002. URL `http://www.cs.umd.edu/users/oleary/cggg/bauer.pdf`; `https://vimeo.com/308173562/5b0d69f62f`.

Bauer:2003:MYR

[Bau03] Friedrich L. Bauer. My year with Rutishauser. *DINAL*, 11(1–4): 1–13, 2003.

Bauer:2005:RH

[Bau05] Friedrich L. Bauer. Rutishauser, Heinz. In *Neue Deutsche Biographie (NDB). (German) [New German Biography]*, page 305. Duncker & Humblot, Berlin, Germany, 2005. URL `http://www.deutsche-biographie.de/pnd132374544.html; https://daten.digitale-sammlungen.de/0001/bsb00016410/images/index.html?seite=319`.

Bauer:2011:MYR

[Bau11] Friedrich L. Bauer. My years with Rutishauser. *Informatik Spektrum*, 34(5):514–518, October 2011. CODEN INSKDW. ISSN 0170-6012 (print), 1432-122X (electronic). URL `http://link.springer.com/article/10.1007/s00287-011-0554-7`.

Backus:1960:RALa

[BBG+60a] J. W. Backus, F. L. Bauer, J. Green, C. Katz, J. McCarthy, P. Naur, A. J. Perlis, H. Rutishauser, K. Samelson, B. Vauquois, J. H. Wegstein, A. van Wijngaarden, and M. Woodger. Report on the algorithmic language Algol 60. *Numerische Mathematik*, 2(1): 106–136, December 1960. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `https://link.springer.com/article/10.1007/BF01386216`.

Backus:1960:RALb

[BBG+60b] J. W. Backus, F. L. Bauer, J. Green, C. Katz, J. McCarthy, P. Naur, A. J. Perlis, H. Rutishauser, K. Samelson, B. Vauquois, J. H. Wegstein, A. van Wijngaarden, and M. Woodger. Report on the algorithmic language Algol 60. *Acta Polytechnica Scandinavica: Mathematics and Computing Machinery Series*, (5):284–??, ???? 1960. CODEN APSMAT. ISSN 0355-2713.

Backus:1963:RRAa

[BBG+63a] J. W. Backus, F. L. Bauer, J. Green, C. Katz, J. McCarthy, P. Naur, A. J. Perlis, H. Rutishauser, K. Samelson, B. Vauquois, J. H. Wegstein, A. van Wijngaarden, and M. Woodger. Revised report on the algorithmic language ALGOL 60. *The Computer Journal*, 5(4):349–367, January 1963.

CODEN CMPJA6. ISSN 0010-4620 (print), 1460-2067 (electronic). URL http://comjnl.oxfordjournals.org/content/5/4/349.full.pdf+html; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/050349.sgm.abs.html; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/349.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/350.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/351.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/352.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/353.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/354.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/355.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/356.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/357.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/358.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/359.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/360.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/361.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/362.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/363.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/364.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/365.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/366.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_05/Issue_04/tiff/367.tif; https://standardpascaline.org/Algol60-RevisedReport.pdf.

Backus:1963:RRAb

[BBG+63b] J. W. Backus, F. L. Bauer, J. Green, C. Katz, J. McCarthy, P. Naur, A. J. Perlis, H. Rutishauser, K. Samelson, B. Vauquois, J. H. Wegstein, A. van Wijngaarden, and M. Woodger. Revised report on the algorithmic language ALGOL 60. *Numerische Mathematik*, 4:420–453, December 1963. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL https://link.springer.com/article/10.1007/BF01386340. Edited by Peter Naur. Dedicated to the memory of William Turanski.

Backus:1963:BAS

[BBG+63c] J. W. Backus, F. L. Bauer, J. Green, C. Katz, J. McCarthy, P. Naur, A. J. Perlis, Heinz Rutishauser, K. Samelson, B. Vauquois, J. H. Wegstein, A. van Wijngaarden, and M. Woodger. Bericht über die Algorithmische Sprache ALGOL 60 (ALGOL Bulletin Supplement No. 3). Zur Erinnerung an William Turanski. Herausgegeben von P. Naur. (German) [Report on the algorithmic language ALGOL 60 (ALGOL Bulletin supplement no. 3). In memory of William Turanski. Edited by P. Naur]. *Elektronische Datenverarbeitung*, 2(??):1–17, 1963. ISSN 0374-3012.

Backus:1976:MRA

[BBG+76] J. W. Backus, F. L. Bauer, J. Green, C. Katz, J. McCarthy, P. Naur, A. J. Perlis, H. Rutishauser, K. Samelson, B. Vauquois, J. H. Wegstein, A. van Wijngaarden, M. Woodger, R. M. De Morgan, I. D. Hill, and B. A. Wichmann. Modified report on the algorithmic language ALGOL-60. *The Computer Journal*, 19(4):364–379, November 1976. CODEN CMPJA6. ISSN 0010-4620 (print), 1460-2067 (electronic). URL http://comjnl.oxfordjournals.org/content/19/4/364.full.pdf+html; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/364.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/365.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/366.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/367.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/368.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/369.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/370.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/371.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/372.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/373.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/374.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/375.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/376.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/377.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/378.tif; http://www3.oup.

co.uk/computer_journal/hdb/Volume_19/Issue_04/tiff/379.tif.

Bauer:1958:PUL

[BBR+58] F. L. Bauer, H. Bottenbruch, H. Rutishauser, K. Samelson, P. Graeff, P. Lauchli, and M. Paul. Proposal for a universal language for the description of computing processes. In J. W. Carr, editor, *Computer Programming and Artificial Intelligence, University of Michigan Summer School 1958*, pages 355–373. ????, ????, 1958.

Buhlmann:1969:BGB

[BCK+69] H. Bühlmann, W. Czaja, K. Kovari, R. T. Shield, W. Bosshard, K. Alder, and H. Rutishauser. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 20(3):430–432, May 1969. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL http://link.springer.com/article/10.1007/BF01590436.

Becker:1971:BRH

[Bec71] Otwin Becker. Besprungen: Rutishauser, H.: *Handbook for Automatic Computation, Vol. I / Part a: Description of ALGOL 60*, Die Grundlehren der mathematischen Wissenschaften, 135. Band. XII, 323 S. DM 58,-. Grau, A. A., U. Hill, H. Langmaack: *Handbook for Automatic Computation, Vol. 1 / Part b: Translation of ALGOL 60*, Die Grundlehren der mathematischen Wissenschaften, 137. Band. X, 397 S. DM 64,-. Berlin–Heidelberg–New York 1967, Springer-Verlag. (German) [Reviews]. *Zeitschrift für die gesamte Staatswissenschaft / Journal of Institutional and Theoretical Economics*, 127(2):365–366, May 1971. CODEN ???? ISSN 0044-2550. URL https://www.jstor.org/stable/40749460.

Bauer:1967:DA

[BHO+67] Friedrich L. Bauer, Alston S. Householder, Frank W. J. Olver, Heinz Rutishauser, Klaus Samelson, and Eduard Stiefel. *Description of ALGOL 60*, volume 1a of *Handbook for Automatic Computation*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1967. ISBN 3-540-03826-4, 3-642-86934-3 (e-book), 3-642-86936-X (print), 3-662-38103-6. xii + 326 pp. LCCN QA76.5 .R87. URL http://www.springerlink.com/content/978-3-642-86934-1.

Bosset:1965:QEN

[Bos65] L. Bosset. Quelques expériences numériques sur la méthode de Rutishauser pour le calcul des valeurs propres. (French) [Some numerical experiments on the method of Rutishauser for the computation of eigenvalues]. In *Troisième Congr. de Calcul et de Traitement de l'Information AFCALTI*, pages 123–129. Dunod, Paris, France, 1965.

Bulirsch:1968:IGQ

[BR68] R. Bulirsch and H. Rutishauser. Interpolation und genäherte Quadratur. (German) [Interpolation and approximate quadrature]. In Sauer and Szabó [SS68], pages 232–319. ISBN 3-642-95030-2, 3-642-95031-0. LCCN QA76 .B3192. Herausgegeben von R. Sauer und I. Szabó. Unter Mitwirkung von H. Neuber, W. Nürnberg, K. Pöschl, E. Truckenbrodt und W. Zander.

Bauer:1963:NAN

[BRS63] F. L. Bauer, H. Rutishauser, and E. Stiefel. New aspects in numerical quadrature. In *Proceedings of the Symposium on Applied Mathematics*, volume XV, pages 199–218. American Mathematical Society, Providence, RI, USA, 1963.

Bruderer:2017:EHC

[Bru17] Herbert Bruderer. Early history of computing in Switzerland: Discovery of rare devices, unknown documents, and scarcely known facts. *IEEE Annals of the History of Computing*, 39(1):65–72, January/March 2017. CODEN IAHCEX. ISSN 1058-6180 (print), 1934-1547 (electronic). URL `https://www.computer.org/csdl/mags/an/2017/01/man2017010065-abs.html`.

Bruderer:2020:PBF

[Bru20a] Herbert Bruderer. Preparation for building the first swiss digital computer (Ermeth). ACM Web site, August 31, 2020. URL `https://cacm.acm.org/blogs/blog-cacm/247088-preparation-for-building-the-first-swiss-digital-computer-ermeth/`.

Bruderer:2020:WTN

[Bru20b] Herbert Bruderer. Why is there no well-known swiss IT industry? ACM Web site, January 20, 2020. URL `https://cacm.acm.org/blogcacm/why-is-there-no-well-known-swiss-it-industry/`.

Baumgartner:1953:BGB

[BSR53] W. Baumgartner, E. Stiefel, and H. Rutishauser. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 4(1):87–88, January 1953. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF02075310`.

Coghlan:2024:HPL

[CRB24] Brian Coghlan, Brian Randell, and Ralf Buelow. How Percy Ludgate's 1909 paper (and IBM) helped thwart Konrad Zuse's computer patent in 1960. *IEEE Annals of the History of Computing*, 46(3):20–35, July/September 2024. CODEN IAHCEX. ISSN 1058-6180 (print), 1934-1547 (electronic).

Culik:1972:BRJb

[Čul72a] Karel Čulík. Book review: J. W. Backus, F. L. Bauer, J. Green, C. Katz, J. McCarthy, P. Naur, A. J. Perlis, H. Rutishauser, K. Samelson, B. Vauquois, J. H. Wegstein, A. van Wijngaarden, and M. Woodger. *Revised report on the algorithmic language ALGOL 60*. Numerische Mathematik, vol. 4 (1962–1963), pp. 420–453; also ibid., vol. 6 (1963), pp. 1–17; and The Computer Journal, vol. 5 no. 4 (1963), pp. 349–367. *Journal of Symbolic Logic*, 37(3):623–624, September 1972. CODEN JSYLA6. ISSN 0022-4812 (print), 1943-5886 (electronic). URL `https://www.jstor.org/stable/2272794`.

Culik:1972:BRJa

[Čul72b] Karel Čulík. Book review: J. W. Backus, F. L. Bauer, J. Green, C. Katz, J. McCarthy, P. Naur (editor), A. J. Perlis, H. Rutishauser, K. Samelson, B. Vauquois, J. H. Wegstein, A. van Wijngaarden, and M. Woodger. *Report on the algorithmic language ALGOL 60*. Numerische Mathematik, vol. 2 (1960), pp. 106–136; also Communications of the Association for Computing Machinery, vol. 3 (1960), pp. 299–314. *Journal of Symbolic Logic*, 37(3):622–623, September 1972. CODEN JSYLA6. ISSN 0022-4812 (print), 1943-5886 (electronic). URL `ttps://www.jstor.org/stable/2272793`.

Dunner:1952:BGB

[DCR+52] E. Dünner, B. Chaix, H. Rutishauser, M. Plancherel, and H. Ziegler. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal*

of Applied Mathematics and Physics, 3(4):317–320, July 1952. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF02009625`.

Dmitrishin:2013:TDG

[Dmi13] R. Ī. Dmitrishin. Two-dimensional generalizations of the Rutishauser *qd*-algorithm. *Mat. Metodi Fiz.-Mekh. Polya*, 56(4): 33–39, 2013. ISSN 0130-9420.

Dmytryshyn:2015:TDG

[Dmy15] R. I. Dmytryshyn. Two-dimensional generalization of the Rutishauser qd-algorithm. *Journal of mathematical sciences (New York, N.Y.)*, 208(3):301–309, June 2015. CODEN JMTSEW. ISSN 1072-3374 (print), 1573-8795 (electronic). URL `http://link.springer.com/article/10.1007/s10958-015-2447-9`.

Dmytryshyn:2016:MGR

[Dmy16] R. I. Dmytryshyn. A multidimensional generalization of the Rutishauser *qd*-algorithm. *Carpathian Math. Publ.*, 8(2):230–238, 2016. ISSN 2075-9827.

Engeli:1959:C

[EGRS59a] M. Engeli, Th. Ginsburg, H. Rutishauser, and E. Stiefel. Conclusions. In *Refined Iterative Methods for Computation of the Solution and the Eigenvalues of Self-adjoint Boundary Value Problems* [EGRS59b], chapter V, pages 102–105. ISBN 3-0348-7224-0 (e-book), 3-0348-7226-7. ISSN 0514-8146. LCCN QA3 .Z8 v.8; QA371. URL `http://www.springerlink.com/content/978-3-0348-7224-9`.

Engeli:1959:RIM

[EGRS59b] Max Engeli, Theo. Ginsburg, Heinz Rutishauser, and Eduard L. Stiefel. *Refined Iterative Methods for Computation of the Solution and the Eigenvalues of Self-Adjoint Boundary Value Problems*, volume 8 of *Mitteilungen aus dem Institut für angewandte Mathematik*. Birkhäuser, Cambridge, MA, USA; Berlin, Germany; Basel, Switzerland, 1959. ISBN 3-0348-7224-0 (e-book), 3-0348-7226-7. ISSN 0514-8146. 107 pp. LCCN QA3 .Z8 v.8; QA371. URL `http://www.springerlink.com/content/978-3-0348-7224-9`.

Engeli:1959:YO

[EGRS59c] Max Engeli, Theo. Ginsburg, Heinz Rutishauser, and Eduard L. Stiefel. Young's overrelaxation. In *Refined Iterative Methods for Computation of the Solution and the Eigenvalues of Self-adjoint Boundary Value Problems* [EGRS59b], chapter IV.1, page ?? ISBN 3-0348-7224-0 (e-book), 3-0348-7226-7. ISSN 0514-8146. LCCN QA3 .Z8 v.8; QA371. URL http://www.springerlink.com/content/978-3-0348-7224-9.

Faybusovich:1994:RAE

[Fay94] L. Faybusovich. On the Rutishauser's approach to eigenvalue problems. In Paul Van Dooren and Bostwick Wyman, editors, *Linear Algebra for Control Theory*, volume 62 of *The IMA Volumes in Mathematics and its Applications*, pages 87–102. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1994. URL http://link.springer.com/chapter/10.1007/978-1-4613-8419-9_8.

Francis:1961:TUA

[Fra61] J. G. F. Francis. The QR transformation: a unitary analogue to the LR transformation — part 1. *The Computer Journal*, 4(3):265–271, October 1961. CODEN CMPJA6. ISSN 0010-4620 (print), 1460-2067 (electronic). URL http://comjnl.oxfordjournals.org/content/4/3/265.full.pdf+html; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_03/040265.sgm.abs.html; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_03/tiff/265.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_03/tiff/266.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_03/tiff/267.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_03/tiff/268.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_03/tiff/269.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_03/tiff/270.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_03/tiff/271.tif. See also [Fra62, ?, ?].

Francis:1962:TP

[Fra62] J. G. F. Francis. The QR transformation — part 2. *The Computer Journal*, 4(4):332–345, January 1962. CODEN CMPJA6. ISSN 0010-4620 (print), 1460-2067 (electronic). URL http://comjnl.oxfordjournals.org/content/4/4/332.full.pdf+html; http://www3.oup.co.uk/computer_

journal/hdb/Volume_04/Issue_04/040332.sgm.abs.html; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_04/tiff/332.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_04/tiff/333.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_04/tiff/334.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_04/tiff/335.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_04/tiff/336.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_04/tiff/337.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_04/tiff/338.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_04/tiff/339.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_04/tiff/340.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_04/tiff/341.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_04/tiff/342.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_04/tiff/343.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_04/tiff/344.tif; http://www3.oup.co.uk/computer_journal/hdb/Volume_04/Issue_04/tiff/345.tif. See also [Fra61, **?**, **?**].

G:1970:BRR

[G.70] W. G. Book review: R. Sauer, I. Szabo, T. P. Angelitch, G. Aumann, F. L. Bauer, R. Bulirsch, H. P. Kunzi, H. Rutishauser, K. Samelson, R. Sauer, and J. Stoer, *Mathematische Hilfsmittel des Ingenieurs. III*, Springer-Verlag, Berlin, 1969, xviv + 534 pp., 24 cm. Price $24.50. *Mathematics of Computation*, 24(110): 475, April 1970. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL https://www.jstor.org/stable/2004494.

Geppert:1966:BBJ

[Gep66] M. G. Geppert. Buchbesprechung: Backus, J. W., F. L. Bauer, J. Green, C. Katz, J. McCarthy, P. Naur, A. J. Perlis, H. Rutishauser, K. Samelson, B. Vauquois, J. H. Wegstein, A. Van Wijngarden und M. Woodger: *Bericht über die algorithmische Sprache Algol 60*. (*Report on the algorithmic language Algol 60*. Übers. Kerner J. O. u. Mitarb.). Akademie-Verlag Berlin 1962. vi + 49 S., Preis MDN 10,50. *Biometrische Zeitschrift*, 8(1-2):121, 1966. CODEN BIZEB3. ISSN 0006-3452.

Gragg:1984:NSR

[GH84] William B. Gragg and William J. Harrod. The numerically stable

reconstruction of Jacobi matrices from spectral data. *Numerische Mathematik*, 44(3):317–335, September 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Grau:1967:TA

[GHL67] A. A. Grau, U. Hill, and H. Langmaack. *Translation of ALGOL 60*, volume 137 of *Handbook for Automatic Computation*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1967. ISBN 3-642-86937-8 (e-book), 3-642-86939-4 (print). ISSN 0072-7830 (print), 2196-9701 (electronic). ix + 403 pp. LCCN QA1-939. URL `http://www.springerlink.com/content/978-3-642-86937-2`.

Gander:1977:NPN

[GMŠ77] Walter Gander, Luciano Molinari, and Hana Švecová, editors. *Numerische Prozeduren aus Nachlass und Lehre von Heinz Rutishauser. (German) [Numerical procedures from the estate and teaching of Heinz Rutishauser]*, volume 33 of *International Series of Numerical Mathematics*. Birkhäuser, Cambridge, MA, USA; Berlin, Germany; Basel, Switzerland, 1977. ISBN 3-7643-0874-5, 3-0348-7176-7 (e-book). 127 pp. LCCN QA297 .R86 1977.

Gruter:1958:BGB

[GR58] H. Grüter and H. Rutishauser. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 9(4): 393–394, November 1958. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01593881`.

Gutknecht:2007:NAZ

[Gut07] Martin H. Gutknecht. Numerical analysis in Zurich — 50 years ago. In ????, editor, *Proceedings of ICIAM 2007*, pages 279–290. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 2007. ISBN ???? LCCN ???? URL `http://www.sam.math.ethz.ch/~mhg/SAMhist/pub/Gut10-NAZ-SMG100.pdf`.

H:1970:BRH

[H.70] A. S. H. Book review: H. R. Schwarz, H. Rutishauser & E. Stiefel, *Numerik Symmetrischer Matrizen*, B. G. Teubner Verlag, Stuttgart, 1968, 243 pp., 22 cm. Price DM 34-. *Mathematics of Computation*, 24(109):229–230, January 1970. CODEN

MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL https://www.jstor.org/stable/2004900.

Henrich:1968:BGB

[HHR+68] P. Henrich, P. Huguenin, H. Rutishauser, I. Zschokke-Gränacher, Hans Ziegler, H. R. Schwarz, L. S. Dzung, and E. Stiefel. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 19(6):981–984, November 1968. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL http://link.springer.com/article/10.1007/BF01602290.

Heilbronner:1959:EET

[HRG59a] E. Heilbronner, H. Rutishauser, and F. Gerson. Eigenwerte, Eigenfunktionen und thermodynamische Funktionen des linearen Oszillators 6-ter Potenz. (German) [Eigenvalues, eigenfunctions and thermodynamic functions of the linear oscillator of 6th power]. *Helvetica Chimica Acta*, 42(7):2304–2314, 1959. CODEN HCACAV. ISSN 0018-019X. URL https://onlinelibrary.wiley.com/doi/abs/10.1002/hlca.19590420703.

Heilbronner:1959:VPB

[HRG59b] E. Heilbronner, H. Rutishauser, and F. Gerson. Verfahren zur programmgesteuerten Berechnung der Eigenwerte eindimensionaler Molekel-Modelle. (German) [Procedure for the program-controlled calculation of the eigenvalues of one-dimensional molecular models]. *Helvetica Chimica Acta*, 42(7):2285–2303, 1959. CODEN HCACAV. ISSN 0018-019X. URL https://onlinelibrary.wiley.com/doi/pdf/10.1002/hlca.19590420702.

I:1991:BRH

[I.91] E. I. Book review: Heinz Rutishauser, *Lectures on Numerical Mathematics* (translated from the German by Walter Gautschi), Birkhauser, Boston, 1990, xv + 546 pp., 23.5 cm. Price $49. *Mathematics of Computation*, 57(196):869–870, October 1991. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL https://www.jstor.org/stable/2938724.

Kasajima:1957:NTR

[Kas57] Tomomi Kasajima. A note on a theorem of Rutishauser. *Commentarii Mathematici Universitatis Sancti Pauli*, 6:89–91, 1957. ISSN 0010-258X.

Kuhn:1967:BGB

[KPS+67] W. Kuhn, P. Profos, H. R. Schwarz, Theo Ginsburg, H. Rutishauser, K. Alder, Ch. Wehrli, and Peter J. Huber. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 18 (1):145–148, January 1967. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01593907`.

Linder:1951:BGB

[LPA+51] A. Linder, M. Plancherel, J. Ackeret, H. J. v. Baeyer, A. A. Rusterholz, A. Linder, H. Rutishauser, H. Ziegler, F. Kobold, and F. Stüssi. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 2(1):53–62, January 1951. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF02589817`.

Lauchli:1959:BGB

[LRS+59] P. Läuchli, H. Rutishauser, R. Sänger, H. Weber, E. Roth-Desmeules, C. Enz, Hs. H. Günthard, V. Stingelin, W. Hälg, F. Heinrich, and H. Ziegler. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 10(4):444–452, July 1959. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01601058`.

Labhart:1952:BGB

[LWRDR52] H. Labhart, H. Wäffler, E. Roth-Desmeules, and H. Rutishauser. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 3(6):477–478, November 1952. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF02025579`.

Metropolis:1980:HCT

[MHR80] Nicholas Metropolis, Jack Howlett, and Gian-Carlo Rota, editors. *A History of Computing in the Twentieth Century: a Collection of Essays*. Academic Press, New York, NY, USA, 1980. ISBN 0-12-491650-3, 1-4832-9668-7 (e-book). LCCN QA75.5 .I63 1976.

Original versions of these papers were presented at the International Research Conference on the History of Computing, held at the Los Alamos Scientific Laboratory, 10–15 June 1976.

Maeder:1958:BGB

[MKM+58] D. Maeder, U. Katz, E. Mooser, P. de Haller, W. Saxer, H., R. Voellmy, R. Jost, H. Rutishauser, and H. Ziegler. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 9(2):211–216, July 1958. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01600636`.

Ma:1998:MEC

[MKS98] Y. Ma, J. Kosecka, and S. Sastry. Motion estimation in computer vision: optimization on Stiefel manifolds. In *Proceedings of the 37th IEEE Conference on Decision and Control (Cat. No.98CH36171)*, volume 4, pages 3751–3756 vol.4. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1998.

McVean:1965:BGB

[MRDJ65] D. B. McVean, H. Rutishauser, L. S. Dzung, and M. Jeger. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 16(4):566–568, July 1965. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01593957`.

Myrhaug:1965:CPH

[Myr65] Björn Myrhaug. Comments on the proposals of H. Rutishauser, AB19.3.10. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (20):5–6, July 1965. CODEN ALGOBG. ISSN 0084-6198. See [Rut65].

Nake:1966:ZAC

[Nak66a] F. Nake. Zertifikat zu Algorithmus 1, Cholbd. (German) [Certification of algorithm 1, Cholbd]. *Computing*, 1(1):79, March 1966. CODEN CMPTA2. ISSN 0010-485X (print), 1436-5057 (electronic). See [Rut66a].

Nake:1966:ZAO

[Nak66b] F. Nake. Zertifikat zu Algorithmus 2 ornach. (German) [Certification of algorithm 2]. *Computing*, 1(3):281, September 1966. CODEN CMPTA2. ISSN 0010-485X (print), 1436-5057 (electronic). See [Rut66b].

Naur:1960:LMA

[Nau60] Peter Naur. Letter to the members of the ALGOL 60 Committee. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (10):1–2, October 17, 1960. CODEN ALGOBG. ISSN 0084-6198.

Naur:1968:SFA

[Nau68] Peter Naur. Successes and failures of the ALGOL effort. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (28):58–62, July 1968. CODEN ALGOBG. ISSN 0084-6198. URL `http://doi.acm.org/10.1145/1061112.1061118`. Talk given at the colloquium "Ten Years of Algol", Eidgenössische Technische Hochschule, Zürich, May 31, 1968.

Naur:1960:RALa

[NBB+60] Peter Naur, J. W. Backus, F. L. Bauer, J. Green, C. Katz, J. McCarthy, A. J. Perlis, H. Rutishauser, K. Samelson, B. Vauquois, J. H. Wegstein, A. van Wijngaarden, and M. Woodger. Report on the algorithmic language ALGOL 60. *Communications of the ACM*, 3(5):299–314, May 1960. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). See letter [AGG60]. Dedicated to the Memory of William Turanski [American group member who was killed by an automobile just prior to the January 1960 Conference].

Naur:1963:RRA

[NBB+63] Peter Naur, J. W. Backus, F. L. Bauer, J. Green, C. Katz, J. McCarthy, A. J. Perlis, H. Rutishauser, K. Samelson, B. Vauquois, J. H. Wegstein, A. van Wijngaarden, M. Woodger, and P. Nauer. Revised report on the algorithmic language ALGOL 60. *Communications of the ACM*, 6(1):1–17, January 1963. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). Dedicated to the memory of William Turanski.

Naur:1965:RRA

[NBB+65] P. Naur, J. W. Backus, F. L. Bauer, J. Green, C. Katz, J. McCarthy, P. Naur, A. J. Perlis, Heinz Rutishauser, K. Samel-

son, B. Vauquois, J. H. Wegstein, A. van Wijngaarden, and M. Woodger. *Revised report on the algorithmic language ALGOL-60. (Russian)*, volume Moskau, Russia. Verlag "Mir", 1965. 80 pp.

Naur:1997:RRA

[NBB+97] Peter Naur, J. W. Backus, F. L. Bauer, J. Green, C. Kafz, J. McCarthy, A. J. Perlis, H. Rutishauser, K. Samelson, B. Vauquois, J. H. Wegstein, A. van Wijngaarden, and M. Woodger. Revised report on the algorithmic language Algol 60. In *Algol-like Languages*, pages 19–49. Birkhäuser Boston Inc., Cambridge, MA, USA, 1997.

Neukom:2005:EFS

[Neu05] Hans Neukom. ERMETH: The first Swiss computer. *IEEE Annals of the History of Computing*, 27(4):5–22, October/December 2005. CODEN IAHCEX. ISSN 1058-6180 (print), 1934-1547 (electronic).

OConnor:2010:HR

[OR10] John J. O'Connor and Edward F. Robertson. Heinz Rutishauser. MacTutor History of Mathematics Web site, St. Andrews University, Scotland., December 2010. URL `https://mathshistory.st-andrews.ac.uk/Biographies/Rutishauser/`; `https://www.wikiwand.com/en/MacTutor_History_of_Mathematics_archive`.

Parlett:1974:BRH

[Par74] Beresford N. Parlett. Book review: H. R. Schwarz, H. Rutishauser & E. Stiefel, translated by P. Hertelendy, *Numerical Analysis of Symmetric Matrices*, Prentice-Hall, Inc., Englewood Cliffs, N. J., 1973, xi + 276 pp., 24 cm. *Mathematics of Computation*, 28(125): 328, January 1974. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL `https://www.jstor.org/stable/2005845`.

Plancherel:1952:BGB

[PBJ+52] M. Plancherel, W. Baumgartner, M. Jeger, H. Rutishauser, A. P. Speiser, J. Ackeret, and E. Völlm. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 3(5): 401–406, September 1952. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF02008156`.

Plancherel:1956:BGB

[PRW+56] M. Plancherel, H. Rutishauser, H. Weber, J. Ackeret, and H. Ziegler. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 7(1):86–88, January 1956. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01600732`.

Rutishauser:1955:DVP

[RB55] Heinz Rutishauser and Friedrich L. Bauer. Détermination des vecteurs propres d'une matrice par une méthode itérative avec convergence quadratique. (French) [Determination of the eigenvectors of a matrix by an iterative method with quadratic convergence]. *Comptes rendus de l'Académie des sciences, Paris*, 240: 1680–1681, 1955. ISSN 0001-4036 (print), 2419-6304 (electronic).

Roth-Desmeules:1960:BGB

[RDBG+60] E. Roth-Desmeules, H. J. Bürgin, Th. Ginsburg, W. Hardmeier, Res Jost, H. Ziegler, F. Tank, W. Traupel, and H. Rutishauser. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 11(1):81–88, January 1960. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01591809`.

Roth-Desmeules:1962:BGB

[RDWZ+62] E. Roth-Desmeules, H. Weber, H. Ziegler, E. Baldinger, H. Rutishauser, M. Weber, J.-P. Blaser, and Res Jost. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 13(6):613–620, November 1962. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01595588`.

Rutishauser:1957:BGB

[RFT+57] H. Rutishauser, H. Favre, F. Tank, W. Hälg, E. Roth-Desmeules, B., L. van der Waerden, P. Profos, P. de Haller, and E. Bickel. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 8(1):82–88, January 1957. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01601159`.

Rojas:2000:FCH

[RH00] Raúl Rojas and Ulf Hashagen, editors. *The First Computers: History and Architectures*. History of computing. MIT Press, Cambridge, MA, USA, 2000. ISBN 0-262-18197-5 (hardcover), 0-585-35535-5 (electronic). xii + 457 pp. LCCN QA76.17 .F57 2000.

Rojas:1998:RKZ

[Roj98] Raúl Rojas, editor. *Die Rechenmaschinen von Konrad Zuse. (German) [The computing machines of Konrad Zuse]*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1998. ISBN 3-540-63461-4 (hardcover), 3-642-71944-9 (e-book). vii + 221 pp. LCCN QA75 .R42 1998; QA75.5-76.95; TK7885.

Rutishauser:1948:RSD

[RS48] Heinz Rutishauser and Hans Samelson. Sur le rayon d'une sphère dont la surface contient une courbe fermée. (French) [On the radius of a sphere whose surface contains a closed curve]. *Comptes rendus de l'Académie des sciences, Paris*, 227:755–757, 1948. ISSN 0001-4036 (print), 2419-6304 (electronic).

Rutishauser:1963:TMS

[RS63] H. Rutishauser and H. R. Schwarz. The LR transformation method for symmetric matrices. *Numerische Mathematik*, 5(1): 273–289, December 1963. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic).

Rutishauser:1950:PDRa

[RSS50a] Heinz Rutishauser, Ambros Speiser, and Eduard Stiefel. Programmgesteuerte digitale Rechengeräte (elektronische Rechenmaschinen). I. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 1(5):277–297, September 1950. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1950:PDRb

[RSS50b] Heinz Rutishauser, Ambros Speiser, and Eduard Stiefel. Programmgesteuerte digitale Rechengeräte (elektronische Rechenmaschinen). II. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 1(5):339–362, September 1950. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1951:PDRc

[RSS51a] Heinz Rutishauser, Ambros Speiser, and Eduard Stiefel. *Programmgesteuerte digitale Rechengeräte (elektronische Rechenmaschinen). (German) [Program-controlled digital computing devices (electronic calculating machines)]*, volume 2 of *Mitteilungen aus dem Institut für angewandte Mathematik*. Birkhäuser, Cambridge, MA, USA; Berlin, Germany; Basel, Switzerland, 1951. 102 pp. URL `https://link.springer.com/article/10.1007/978-3-0348-4113-9; https://link.springer.com/book/10.1007/978-3-0348-4113-9`.

Rutishauser:1951:PDRa

[RSS51b] Heinz Rutishauser, Ambros Speiser, and Eduard Stiefel. Programmgesteuerte digitale Rechengeräte (elektronische Rechenmaschinen). III. (German) [Program-controlled digital computing devices (electronic calculating machines). III]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 2(1):1–25, January 1951. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1951:PDRb

[RSS51c] Heinz Rutishauser, Ambros Speiser, and Eduard Stiefel. Programmgesteuerte digitale Rechengeräte (elektronische Rechenmaschinen). IV. (German) [Program-controlled digital computing devices (electronic calculating machines). IV]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 2(2):62–92, March 1951. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1968:NSM

[RSS68] Heinz Rutishauser, Eduard L. Stiefel, and Hans Rudolf Schwarz. *Numerik symmetrischer Matrizen: Matrizen-Numerik. (German) [Numerics of symmetric matrices: Matrix numerics]*, volume 11 of *Leitfäden der angewandten Mathematik und Mechanik*. B. G. Teubner, Stuttgart, Germany; Leipzig, Germany, 1968. ISSN 0459-021X. 243 pp. LCCN QA263 .S33.

Rutishauser:1972:NSM

[RSS72] H. Rutishauser, E. Stiefel, and H. R. Schwarz. *Numerik symmetrischer Matrizen. (German) [Numerics of symmetric matrices]*, volume 11 of *Leitfäden der angewandten Mathematik und Mechanik LAMM*. B. G. Teubner, Stuttgart, Germany; Leipzig,

Germany, 1972. ISBN 3-519-12311-8 (print), 3-663-11341-8 (e-book). 261 pp. LCCN QA263 .S33 1972.

Rutishauser:1944:PKG

[Rut44] H. Rutishauser. Über Punktverteilungen auf der Kugelfläche. (German) [On point distributions on the spherical surface]. *Commentarii Mathematici Helvetici (Zurich)*, 17(1):327–331, December 1944. CODEN COMHAX. ISSN 0010-2571 (print), 1420-8946 (electronic).

Rutishauser:1947:SFF

[Rut47a] H. Rutishauser. Sur les suites et familles de fonctions méromorphes de plusieurs variables. (French) [On the sequences and families of metomorphic functions of several variables]. *Comptes rendus de l'Académie des sciences, Paris*, 224:1804–1806, 1947. ISSN 0001-4036 (print), 2419-6304 (electronic).

Rutishauser:1947:SFR

[Rut47b] Heinz Rutishauser. Sur les suites et familles de représentations analytiques du R^4. (French) [On sequences and families of analytical representations of R^4]. *Comptes rendus de l'Académie des sciences, Paris*, 225:33–35, 1947. ISSN 0001-4036 (print), 2419-6304 (electronic).

Rutishauser:1950:KNM

[Rut50a] Heinz Rutishauser. Eine Konvergenzverbesserung für die Newtonsche Methode. (German) [A convergence improvement for Newton's method]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 1:211–212, 1950. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1950:FSAa

[Rut50b] Heinz Rutishauser. *Über Folgen und Scharen von analytischen und meromorphen Funktionen mehrerer Variabeln, sowie von analytischen Abbildungen. (German) [On sequences and families of analytic and meromorphic functions of several variables, as well as of analytic maps].* Ph.D. thesis, Eidgenössische Technische Hochschule (ETH), Zurich, Switzerland, 1950. ii + 249–325 pp.

Rutishauser:1950:FSAb

[Rut50c] Heinz Rutishauser. Über Folgen und Scharen von analytischen und meromorphen Funktionen mehrerer Variabeln, sowie von an-

alytischen Abbildungen. (German) [On sequences and families of analytic and meromorphic functions of several variables, as well as of analytic maps]. *Acta Mathematica*, 83:249–325, 1950. CODEN ACMAA8. ISSN 0001-5962 (print), 1871-2509 (electronic). This is the author's Ph.D. thesis at ETH.

Rutishauser:1951:BAK

[Rut51a] Heinz Rutishauser. Bemerkungen zur Arbeit von K. Emden "Eine Lösung für $\int e^{b(x+a\cos x)}\,dx$". . (German) [Remarks on the work by K. Emden, "A solution for $\int e^{b(x+a\ cosx)}\,dx$"]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 2(4):292–293, July 1951. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1951:EEP

[Rut51b] Heinz Rutishauser. Erste Erfahrungen mit dem programmgesteuerten Rechengerät Z4 von K. Zuse. (German) [First experiences with the program-controlled computing device Z4 from K. Zuse]. *Zeitschrift für Angewandte Mathematik und Mechanik*, 31 (8–9):254, 1951. CODEN ZAMMAX. ISSN 0044-2267 (print), 1521-4001 (electronic). URL `https://onlinelibrary.wiley.com/doi/abs/10.1002/zamm.19510310819`.

Rutishauser:1951:ARP

[Rut51c] Heinz Rutishauser. Über automatische Rechenplanfertigung bei programmgesteuerten Rechenmaschinen. (German) [On automatic calculation plan production with program-controlled calculating machines]. *Zeitschrift für Angewandte Mathematik und Mechanik*, 31(8–9):255, 1951. CODEN ZAMMAX. ISSN 0044-2267 (print), 1521-4001 (electronic). URL `http://archive.computerhistory.org/resources/text/Knuth_Don_X4100/PDF_index/k-5-pdf/k-5-u2456-Rechenplanfortigung-german.pdf`; `http://archive.computerhistory.org/resources/text/Knuth_Don_X4100/PDF_index/k-5-pdf/k-5-u2456-Rechenplanfortigung-translation.pdf`; `https://onlinelibrary.wiley.com/doi/abs/10.1002/zamm.19510310820`. Translation to English by William S. Faught.

Rutishauser:1952:ARPa

[Rut52a] Heinz Rutishauser. Automatische Rechenplanfertigung bei programmgesteuerten Rechenmaschinen. (German) [Automatic calculation plan production with program-controlled calculating machines]. *Mitt. Inst. Angew. Math. Zürich*, 1952(3):45, 1952. ISSN 0514-8146.

Rutishauser:1952:ARPb

[Rut52b] Heinz Rutishauser. Automatische Rechenplanfertigung bei programmgesteuerten Rechenmaschinen. (German) [Automatic calculation plan production with program-controlled calculating machines]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 3(4):312–313, July 1952. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1952:IMI

[Rut52c] Heinz Rutishauser. Über die Instabilität von Methoden zur Integration gewöhnlicher Differentialgleichungen. (German) [On the instability of methods for integrating ordinary differential equations]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 3(1):65–74, January 1952. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). See English translation in [Rut56b].

Rutishauser:1953:BKB

[Rut53] Heinz Rutishauser. Beitrage zur Kentniss des Biorthogonalisierungs-Algorithmus von Lanczos. (German) [Contributions to the understanding of the Lanczos biorthogonalization algorithm]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 4(1):35–56, January 1953. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1954:AQD

[Rut54a] Heinz Rutishauser. Anwendungen des Quotienten-Differenzen-Algorithmus. (German) [Applications of the quotient–difference algorithm]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 5(6):496–508, November 1954. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1954:QDA

[Rut54b] Heinz Rutishauser. Der Quotienten–Differenzen-Algorithmus. (German) [The quotient–difference algorithm]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 5(3):233–251, May 1954. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1954:IAQ

[Rut54c] Heinz Rutishauser. Ein infinitesimales Analogon zum Quotienten-Differenzen-Algorithmus. (German) [An infinitesimal analogue to the quotient–difference algorithm]. *Archiv der Mathematik*, 5:132–137, 1954. CODEN ACVMAL. ISSN 0003-889x (print), 1420-8938 (electronic).

Rutishauser:1955:BNI

[Rut55a] Heinz Rutishauser. Bemerkungen zur numerischen Integration gewöhnlicher Differentialgleichungen n-ter Ordnung. (German) [Remarks on the numerical integration of ordinary differential equations n-th order]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 6(6):497–498, November 1955. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1955:BEE

[Rut55b] Heinz Rutishauser. Bestimmung der Eigenwerte und Eigenvektoren einer Matrix mit Hilfe des Quotienten-Differenzen-Algorithmus. (German) [Determination of the eigenvalues and eigenvectors of a matrix with the help of the quotient–difference algorithm]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 6(5):387–401, September 1955. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1955:SPT

[Rut55c] Heinz Rutishauser. Some programming techniques for the ER-METH. *Journal of the ACM*, 2(1):1–4, January 1955. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735x (electronic). URL `https://dl.acm.org/doi/10.1145/320789.320790`.

Rutishauser:1955:MPD

[Rut55d] Heinz Rutishauser. Une méthode pour la détermination des valeurs propres d'une matrice. (French) [A method for the determination of the eigenvalues of a matrix]. *Comptes rendus de l'Académie des sciences, Paris*, 240:34–36, 1955. ISSN 0001-4036 (print), 2419-6304 (electronic).

Rutishauser:1956:FWI

[Rut56a] Heinz Rutishauser. Eine Formel von Wronski und ihre Bedeutung für den Quotienten-Differenzen-Algorithmus. (German) [A

formula by Wronski and its meaning for the quotient–difference algorithm]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 7(2):164–169, March 1956. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1956:IMI

[Rut56b] Heinz Rutishauser. On the instability of methods for the integration of ordinary differential equations. *NACA Technical Memorandum*, 1956(1403):15, April 1956. ISSN 0096-7602. URL `https://archive.org/details/nasa_techdoc_20030065241; https://digital.library.unt.edu/ark:/67531/metadc63924/; https://ufdc.ufl.edu/AA00009205/00001`. Translation of [Rut52c].

Rutishauser:1957:VBA

[Rut57a] H. Rutishauser. Über die Vorbereitungsarbeit beim automatischen Rechnen. (German) [On the preparatory work for automatic calculation]. *Mitt. Verein. Schweiz. Versich.-Math.*, 57:247–257, 1957. ISSN 0042-3815.

Rutishauser:1957:QDAa

[Rut57b] Heinz Rutishauser. Der Quotienten–Differenzen-Algorithmus. (German) [The quotient–difference algorithm]. *Mitt. Inst. Angew. Math. Zürich*, 1957(7):74, 1957. ISSN 0514-8146.

Rutishauser:1957:QDAb

[Rut57c] Heinz Rutishauser. *Der Quotienten–Differenzen-Algorithmus. (German) [The quotient–difference algorithm]*. Mitteilungen aus dem Institut für Angewandte Mathematik an der Eidgenössischen Technischen Hochschule in Zürich. Birkhäuser, Cambridge, MA, USA; Berlin, Germany; Basel, Switzerland, 1957. ISBN 1-4050-7817-0, 3-0348-7175-9. 74 pp. LCCN QA266 .R8. URL `http://www.springerlink.com/content/978-3-0348-7175-4`.

Rutishauser:1958:BKG

[Rut58a] Heinz Rutishauser. Beschleunigung der Konvergenz einer gewissen Klasse von Kettenbrüchen. (German) [Accelerating the convergence of a certain class of continued fractions]. *Zeitschrift für Angewandte Mathematik und Mechanik*, 38(5–6):187–190, May/June 1958. CODEN ZAMMAX. ISSN 0044-2267 (print), 1521-4001 (electronic). URL `https://onlinelibrary.wiley.com/doi/abs/10.1002/zamm.19580380506`.

Rutishauser:1958:SEP

[Rut58b] Heinz Rutishauser. Solution of eigenvalue problems with the *LR*-transformation. In *Further Contributions to the Solution of Simultaneous Linear Equations and the Determination of Eigenvalues*, volume 1958(49) of *Applied Mathematics Series*, pages 47–81. National Bureau of Standards, United States Department of Commerce, Washington, DC, USA, 1958. ISSN 0083-1786.

Rutishauser:1958:BES

[Rut58c] Heinz Rutishauser. Zur Bestimmung der Eigenwerte schiefsymmetrischer Matrizen. (German) [On determination of the eigenvalues of skew-symmetric matrices]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 9(5–6):586–590, March 1958. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Ruttishauser:1958:VKV

[Rut58d] Heinz Ruttishauser. Über eine Verallgemeinerung der Kettenbrüche (Vorläufiger Bericht). (German) [On a generalization of continued fractions (preliminary report)]. *Zeitschrift für Angewandte Mathematik und Mechanik*, 38(7–8):278–279, 1958. CODEN ZAMMAX. ISSN 0044-2267 (print), 1521-4001 (electronic). URL `https://onlinelibrary.wiley.com/doi/abs/10.1002/zamm.19580380716`.

Rutishauser:1959:TGM

[Rut59a] H. Rutishauser. Theory of gradient methods. In *Refined Iterative Methods for Computation of the Solution and the Eigenvalues of Self-adjoint Boundary Value Problems* [EGRS59b], chapter II, pages 24–49. ISBN 3-0348-7224-0 (e-book), 3-0348-7226-7. ISSN 0514-8146. LCCN QA3 .Z8 v.8; QA371. URL `http://www.springerlink.com/content/978-3-0348-7224-9`.

Rutishauser:1959:BAA

[Rut59b] Heinz Rutishauser. Bemerkungen zu einer Arbeit von Al-Salam und Carlitz. (German) [Comments on a work by Al-Salam and Carlitz]. *Archiv der Mathematik*, 10:292–293, 1959. CODEN ACVMAL. ISSN 0003-889x (print), 1420-8938 (electronic).

Rutishauser:1959:DBG

[Rut59c] Heinz Rutishauser. Deflation bei Bandmatrizen. (German) [Deflation in band matrices]. *Zeitschrift für Angewandte Mathematik*

und Physik = Journal of Applied Mathematics and Physics, 10(3): 314–319, May 1959. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1959:DER

[Rut59d] Heinz Rutishauser. Deflation by elementary rotations for the solution of algebraic eigenvalue problems. In *ACM'59: Preprints of papers presented at the 14th national meeting of the Association for Computing Machinery, September 1959*, pages 1–3. ACM Press, New York, NY 10036, USA, 1959.

Rutishauser:1959:MNG

[Rut59e] Heinz Rutishauser. Zur Matrizeninversion nach Gauss–Jordan. (German) [On matrix inversion according to Gauss–Jordan]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 10(3):281–291, May 1959. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1960:CER

[Rut60a] H. Rutishauser. Comment on expressions in relations. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (11):7, December 23, 1960. CODEN ALGOBG. ISSN 0084-6198. URL `https://dl.acm.org/doi/10.5555/1060905.1060912`.

Rutishauser:1960:LRI

[Rut60b] H. Rutishauser. Letter [removing imperfections from the ALGOL report]. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (11):2, December 23, 1960. CODEN ALGOBG. ISSN 0084-6198. URL `https://dl.acm.org/doi/10.5555/1060905.1060912`.

Rutishauser:1960:RSD

[Rut60c] H. Rutishauser. Remark on superfluous delimiters. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (11):6, December 23, 1960. CODEN ALGOBG. ISSN 0084-6198.

Rutishauser:1960:BGI

[Rut60d] Heinz Rutishauser. Bemerkungen zur glatten Interpolation. (German) [Notes on smooth interpolation]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 11(6):508–513, November 1960. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1960:BNI

[Rut60e] Heinz Rutishauser. Bemerkungen zur numerischen Integration gewöhnlicher Differentialgleichungen n-ter Ordnung. (German) [Remarks on the numerical integration of ordinary differential equations of n-th order]. *Numerische Mathematik*, 2(1):263–279, December 1960. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic).

Rutishauser:1960:CDS

[Rut60f] Heinz Rutishauser. Comment [on the dummy statement]. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (5):1, September 28, 1960. CODEN ALGOBG. ISSN 0084-6198.

Rutishauser:1960:CAC

[Rut60g] Heinz Rutishauser. *Algoritm chastnykh i raznostei̊.* Biblioteka Sbornika "Matematika". Izdat. Inostr. Lit., Moscow, USSR, 1960. 93 pp. Translated from the German by V. M. Kuročkin.

Rutishauser:1960:ER

[Rut60h] Heinz Rutishauser. Expressions in relations. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (10):11, October 17, 1960. CODEN ALGOBG. ISSN 0084-6198. URL `https://dl.acm.org/doi/10.5555/1060892.1060896`.

Rutishauser:1960:R

[Rut60i] Heinz Rutishauser. Reply to AB 10.1.3. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (10):2–3, October 17, 1960. CODEN ALGOBG. ISSN 0084-6198. See [Nau60].

Rutishauser:1960:KKV

[Rut60j] Heinz Rutishauser. Über eine kubisch konvergente Variante der LR-Transformation. (German) [On a cubically convergent variant of the LR transformation]. *Zeitschrift für Angewandte Mathematik und Mechanik*, 40(1–3):49–54, ???? 1960. CODEN ZAMMAX. ISSN 0044-2267 (print), 1521-4001 (electronic). URL `https://onlinelibrary.wiley.com/doi/abs/10.1002/zamm.19600400109`.

Rutishauser:1961:IAP

[Rut61] H. Rutishauser. Interference with an ALGOL-procedure. *Annual Review in Automatic Programming*, 2:67–75, January 1961. CODEN ARAPDX. ISSN 0066-4138 (print), 1878-545X (electronic).

Rutishauser:1962:ARJ

[Rut62a] H. Rutishauser. Algorithm 104: Reduction to Jacobi. *Communications of the ACM*, 5(7):387, July 1962. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic).

Rutishauser:1962:AW

[Rut62b] H. Rutishauser. Algorithm 125: Weightcoeff. *Communications of the ACM*, 5(10):510–511, October 1962. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). URL `https://dl.acm.org/doi/10.1145/368959.368977`.

Rutishauser:1962:CCSa

[Rut62c] Heinz Rutishauser. Comment [on `comment` statements]. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (15):17, June 16, 1962. CODEN ALGOBG. ISSN 0084-6198.

Rutishauser:1962:CCSb

[Rut62d] Heinz Rutishauser. Comment [on compound statements]. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (15):22, June 16, 1962. CODEN ALGOBG. ISSN 0084-6198.

Rutishauser:1962:CDZ

[Rut62e] Heinz Rutishauser. Comment [on division by zero]. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (15):20, June 16, 1962. CODEN ALGOBG. ISSN 0084-6198.

Rutishauser:1962:CEE

[Rut62f] Heinz Rutishauser. Comment [on evaluation of expressions]. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (15):21, June 16, 1962. CODEN ALGOBG. ISSN 0084-6198.

Rutishauser:1962:MAG

[Rut62g] Heinz Rutishauser. On a modification of the QD-algorithm with Graeffe-type convergence. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 13(5): 493–496, September 1962. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

Rutishauser:1962:RTP

[Rut62h] Heinz Rutishauser. Remark [type procedure called by procedure statement]. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (15):34, June 16, 1962. CODEN ALGOBG. ISSN 0084-6198.

Rutishauser:1963:AS

[Rut63a] H. Rutishauser. Algorithm 150: Syminv2. *Communications of the ACM*, 6(2):67–68, February 1963. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic).

Rutishauser:1963:ARP

[Rut63b] H. Rutishauser. Ausdehnung des Rombergschen Prinzips. (German) [Extension of Romberg's principle]. *Numerische Mathematik*, 5(1):48–54, December 1963. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic).

Rutishauser:1963:BQG

[Rut63c] H. Rutishauser. Betrachtungen zur Quadratwurzeliteration. (German) [Considerations on square root iteration]. *Monatshefte für Mathematik*, 67:452–464, 1963. CODEN MNMTA2. ISSN 0026-9255 (print), 1436-5081 (electronic).

Rutishauser:1963:C

[Rut63d] H. Rutishauser. Correspondence. *The Computer Journal*, 6(2): 133, August 1963. CODEN CMPJA6. ISSN 0010-4620 (print), 1460-2067 (electronic). URL `http://comjnl.oxfordjournals.org/content/6/2/133.full.pdf+html`.

Rutishauser:1963:JRP

[Rut63e] H. Rutishauser. On Jacobi rotation patterns. In *Proc. Sympos. Appl. Math., Vol. XV*, pages 219–239. American Mathematical Society, Providence, RI, USA, 1963.

Rutishauser:1963:RAS

[Rut63f] H. Rutishauser. Remark on Algorithm 150: Syminv2. *Communications of the ACM*, 6(7):390, July 1963. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic).

Rutishauser:1963:URPa

[Rut63g] H. Rutishauser. The use of recursive procedures in ALGOL 60. *Annual Review in Automatic Programming*, 3:43–51, January 1963. CODEN ARVAAM. ISSN 0066-4138 (print), 1878-545X (electronic).

Rutishauser:1963:URPb

[Rut63h] H. Rutishauser. The use of recursive procedures in ALGOL 60. In *International Tracts in Computer Science and Technology*

and Their Application, pages 43–51. Elsevier, Amsterdam, The Netherlands, 1963.

Rutishauser:1963:SSQ

[Rut63i] Heinz Rutishauser. Stabile Sonderfälle des Quotienten–Differenzen-Algorithmus. (German) [Stable special cases of the quotient–difference algorithm]. *Numerische Mathematik*, 5(1):95–112, December 1963. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic).

Rutishauser:1964:MPC

[Rut64] Heinz Rutishauser. Une méthode pour le calcul des valeurs propres des matrices non symétriques. (French) [A method for calculating the eigenvalues of unsymmetrical matrices]. *Comptes rendus de l'Académie des sciences, Paris*, 259:2758, 1964. ISSN 0001-4036 (print), 2419-6304 (electronic).

Rutishauser:1965:CDA

[Rut65] H. Rutishauser. Contributions to the discussion of ALGOL 6x. *ALGOL Bulletin (Amsterdam: Mathematisch Centrum)*, (19):44–50, January 1965. CODEN ALGOBG. ISSN 0084-6198. URL `https://dl.acm.org/doi/10.5555/1060998.1061010`. See comments [Myr65].

Rutishauser:1966:ALG

[Rut66a] H. Rutishauser. Algorithmus 1: Lineares Gleichungssystem mit symmetrischer positiv-definiter Bandmatrix nach Cholesky. (German) [Algorithm 1: Linear equation systems with symmetric positive definite band matrix using Cholesky]. *Computing*, 1(1):77–78, March 1966. CODEN CMPTA2. ISSN 0010-485X (print), 1436-5057 (electronic). URL `http://link.springer.com/article/10.1007/BF02235854`. See certification [Nak66a].

Rutishauser:1966:AOV

[Rut66b] H. Rutishauser. Algorithmus 2: Orthonormierung von Vektoren nach E. Schmidt. (German) [Algorithm 2: Orthonormalization of vectors by E. Schmidt]. *Computing*, 1(2):159–161, June 1966. CODEN CMPTA2. ISSN 0010-485X (print), 1436-5057 (electronic). URL `http://link.springer.com/article/10.1007/BF02342626`. See certification [Nak66b].

Rutishauser:1966:BEO

[Rut66c] H. Rutishauser. Bestimmung der Eigenwerte orthogonaler Matrizen. (German) [Determination of the Eigenvalues of Orthogonal Matrices]. *Numerische Mathematik*, 9(2):104–108, December 1966. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic).

Rutishauser:1966:HSL

[Rut66d] H. Rutishauser. Handbook series linear algebra: The Jacobi method for real symmetric matrices. *Numerische Mathematik*, 9(1):1–10, 1966. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic).

Rutishauser:1966:JMR

[Rut66e] H. Rutishauser. The Jacobi method for real symmetric matrices. *Numerische Mathematik*, 9(1):1–10, November 1966. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 202–211].

Rutishauser:1967:BC

[Rut67a] H. Rutishauser. Basic concepts. In *Description of ALGOL 60* [BHO+67], pages 18–33. ISBN 3-540-03826-4, 3-642-86934-3 (e-book), 3-642-86936-X (print), 3-662-38103-6. LCCN QA76.5 .R87. URL `http://link.springer.com/chapter/10.1007/978-3-642-86934-1_2`.

Rutishauser:1967:D

[Rut67b] H. Rutishauser. Declarations. In *Description of ALGOL 60* [BHO+67], pages 144–171. ISBN 3-540-03826-4, 3-642-86934-3 (e-book), 3-642-86936-X (print), 3-662-38103-6. LCCN QA76.5 .R87. URL `http://link.springer.com/chapter/10.1007/978-3-642-86934-1_6`.

Rutishauser:1967:E

[Rut67c] H. Rutishauser. Expressions. In *Description of ALGOL 60* [BHO+67], pages 34–55. ISBN 3-540-03826-4, 3-642-86934-3 (e-book), 3-642-86936-X (print), 3-662-38103-6. LCCN QA76.5 .R87. URL `http://link.springer.com/chapter/10.1007/978-3-642-86934-1_3`.

Rutishauser:1967:IO

[Rut67d] H. Rutishauser. Input and output. In *Description of ALGOL 60* [BHO+67], pages 227–247. ISBN 3-540-03826-4, 3-642-

86934-3 (e-book), 3-642-86936-X (print), 3-662-38103-6. LCCN QA76.5 .R87. URL http://link.springer.com/chapter/10.1007/978-3-642-86934-1_8.

Rutishauser:1967:I

[Rut67e] H. Rutishauser. Introduction. In *Description of ALGOL 60* [BHO+67], pages 1–17. ISBN 3-540-03826-4, 3-642-86934-3 (e-book), 3-642-86936-X (print), 3-662-38103-6. LCCN QA76.5 .R87. URL http://link.springer.com/chapter/10.1007/978-3-642-86934-1_1.

Rutishauser:1967:MA

[Rut67f] H. Rutishauser. Miscellaneous applications. In *Description of ALGOL 60* [BHO+67], pages 95–143. ISBN 3-540-03826-4, 3-642-86934-3 (e-book), 3-642-86936-X (print), 3-662-38103-6. LCCN QA76.5 .R87. URL http://link.springer.com/chapter/10.1007/978-3-642-86934-1_5.

Rutishauser:1967:P

[Rut67g] H. Rutishauser. Procedures. In *Description of ALGOL 60* [BHO+67], pages 172–226. ISBN 3-540-03826-4, 3-642-86934-3 (e-book), 3-642-86936-X (print), 3-662-38103-6. LCCN QA76.5 .R87. URL http://link.springer.com/chapter/10.1007/978-3-642-86934-1_7.

Rutishauser:1967:S

[Rut67h] H. Rutishauser. Statements. In *Description of ALGOL 60* [BHO+67], pages 56–94. ISBN 3-540-03826-4, 3-642-86934-3 (e-book), 3-642-86936-X (print), 3-662-38103-6. LCCN QA76.5 .R87. URL http://link.springer.com/chapter/10.1007/978-3-642-86934-1_4.

Rutishauser:1968:PNA

[Rut68a] H. Rutishauser. Les propriétés numériques de l'algorithme quotient–difference. (French) [numerical properties of the quotient–difference algorithm]. Report EUR 4083f, Communauté Européenne de l'Énergie Atomique — EURATOM, Luxembourg, 1968.

Rutishauser:1968:TM

[Rut68b] H. Rutishauser. On test matrices. In *Programmation en Mathématiques Numériques, Besançon, 1966*, volume 7(165) of *Éditions Centre Nat. Recherche Sci., Paris*, pages 349–365. Éditions Centre Nat. Recherche Sci., Paris, France, 1968.

Rutishauser:1968:OAL

[Rut68c] H. Rutishauser. Once again: The least square problem. *Linear Algebra and its Applications*, 1(4):479–488, October 1968. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0024379568900220`.

Rutishauser:1969:PNP

[Rut69a] H. Rutishauser. Zur Problematik der Nullstellenbestimmung bei Polynomen. (German) [On the problem of determining zeros in polynomials]. In *Constructive Aspects of the Fundamental Theorem of Algebra (Proc. Sympos., Zürich-Rüschlikon, 1967)*, pages 281–294. Wiley-Interscience, New York, NY, USA, 1969.

Rutishauser:1969:CAF

[Rut69b] Heinz Rutishauser. Computational aspects of F. L. Bauer's simultaneous iteration method. *Numerische Mathematik*, 13(1):4–13, March 1969. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic). URL `https://link.springer.com/article/10.1007/BF02165269`.

Rutishauser:1970:HSL

[Rut70a] H. Rutishauser. Handbook series linear algebra: Simultaneous iteration method for symmetric matrices. *Numerische Mathematik*, 16(3):205–223, 1970. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic).

Rutishauser:1970:SIM

[Rut70b] H. Rutishauser. Simultaneous iteration method for symmetric matrices. *Numerische Mathematik*, 16(3):205–223, December 1970. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL `http://link.springer.com/article/10.1007/BF02219773`. Also in [WR71, pp. 284–302].

Rutishauser:1971:JMR

[Rut71a] H. Rutishauser. The Jacobi method for real symmetric matrices. In Wilkinson and Reinsch [WR71], pages 202–211. ISBN 0-387-05414-6, 3-540-05414-6, 3-662-38854-5, 3-662-39778-1. LCCN QA251 .W67. URL `http://link.springer.com/chapter/10.1007/978-3-642-86940-2_12; http://link.springer.com/chapter/10.1007/978-3-662-39778-7_12`.

Rutishauser:1971:SIM

[Rut71b] H. Rutishauser. Simultaneous iteration method for symmetric matrices. In Wilkinson and Reinsch [WR71], pages 284–302. ISBN 0-387-05414-6, 3-540-05414-6, 3-662-38854-5, 3-662-39778-1. LCCN QA251 .W67. URL `http://link.springer.com/chapter/10.1007/978-3-642-86940-2_20; http://link.springer.com/chapter/10.1007/978-3-662-39778-7_20`.

Rutishauser:1976:VNMa

[Rut76a] Heinz Rutishauser. *Vorlesungen über numerische Mathematik. Band 1. Gleichungssysteme, Interpolation und Approximation. (German) [Lectures on numerical mathematics. Part 1. Equation systems, interpolation, and approximation]*, volume 50. Birkhäuser, Cambridge, MA, USA; Berlin, Germany; Basel, Switzerland, 1976. ISBN 3-7643-0810-9. 164 pp. LCCN QA297 .R87. Herausgegeben von Martin Gutknecht unter Mitwirkung von Peter Henrici, Peter Läuchli und Hans-Rudolf Schwarz, Lehrbücher und Monographien aus dem Gebiete der exakten Wissenschaften. Mathematische Reihe.

Rutishauser:1976:VNMb

[Rut76b] Heinz Rutishauser. *Vorlesungen über numerische Mathematik. Band 2. Differentialgleichungen und Eigenwertprobleme. (German) [Lectures on numerical mathematics. Volume 2 Differential equations and eigenvalue problems]*, volume 57. Birkhäuser, Cambridge, MA, USA; Berlin, Germany; Basel, Switzerland, 1976. ISBN 3-7643-0850-8. 228 pp. Herausgegeben von Martin Gutknecht unter Mitwirkung von Peter Henrici, Peter Läuchli und Hans-Rudolf Schwarz, Lehrbücher und Monographien aus dem Gebiete der exakten Wissenschaften. Mathematische Reihe.

Rutishauser:1990:LNM

[Rut90] Heinz Rutishauser. *Lectures on Numerical Mathematics*. Birkhäuser Boston Inc., Cambridge, MA, USA, 1990. ISBN 0-8176-3491-6, 1-4612-3468-9 (e-book), 1-4612-8035-4, 3-7643-3491-6. xv + 546 pp. LCCN QA297 .R8713 1990. URL `http://www.sam.math.ethz.ch/~mhg/pub/mhg-published/Rutishauser-LoNM.pdf`. Edited by Martin Gutknecht with the assistance of Peter Henrici, Peter Läuchli and Hans-Rudolf Schwarz, with a foreword by Gutknecht and a preface by Henrici, Läuchli and Schwarz, and translated from the German and with a preface by Walter Gautschi.

Rutishauser:2013:NAS

[Rut13] Hanna Rutishauser. Numerik, ALGOL und die Schweizer Hochalpen. Zur Arbeit an der Biografie von Heinz Rutishauser (1918–1970). (German) [Numerics, ALGOL and the Swiss High Alps. On the work on the biography of Heinz Rutishauser (1918–1970)]. *Informatik Spektrum*, 36(5):??, ???? 2013. CODEN INSKDW. ISSN 0170-6012 (print), 1432-122X (electronic). URL `http://link.springer.com/article/10.1007/s00287-013-0730-z`.

S:1978:BRM

[S.78] H. J. S. Book review: Martin Gutknecht, Peter Henrici, Peter Lauchli, and Hans-Rudolf Schwarz, *Heinz Rutishauser: Vorlesungen Uber Numerische Mathematik Vols. 1 and 2. Mathematics of Computation*, 32(142):651–652, April 1978. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL `https://www.jstor.org/stable/pdf/2006176.pdf`.

Saxer:1955:BGB

[SBRD+55] W. Saxer, E. Baumann, E. Roth-Desmeules, K. Berger, H. Labhart, H. Rutishauser, and E. Völlm. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 6(3):252–256, May 1955. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01600645`.

Schmid:1969:BRF

[Sch69] E. Schmid. Book review: F. L. Bauer and A. S. Householder and F. J. Olver and H. Rutishauser and K. Samelson and E. Stiefel, *Handbook for Automatic computation, Vol. I. Die Grundlehren der mathematischen Wissenschaften in Einzeldarstellungen mit besonderer Berücksichtigung der Anwendungsgebiete*, Band 135. *Computing*, 4(3):276, September 1969. CODEN CMPTA2. ISSN 0010-485X (print), 1436-5057 (electronic).

Schmid:1970:BRF

[Sch70] E. Schmid. Book review: F. L. Bauer and A. S. Householder and F. W. J. Oliver and H. Rutishauser and K. Samelson and E. Stiefel (Hg.), *Handbook for Automatic Computation, Vol. I, Part B* (Die Grundlehren der mathematischen Wissenschaften in Einzeldarstellungen mit besonderer Berücksichtigung der Anwendungsgebiete: Band 137). *Computing*, 6(1–2):214, March 1970.

CODEN CMPTA2. ISSN 0010-485X (print), 1436-5057 (electronic).

Schwarz:1981:EYC

[Sch81] H. R. Schwarz. The early years of computing in Switzerland. *Annals of the History of Computing*, 3(2):121–132, April/June 1981. CODEN AHCOE5. ISSN 0164-1239. URL `http://dlib.computer.org/an/books/an1981/pdf/a2121.pdf; http://www.computer.org/annals/an1981/a2121abs.htm`.

Seewald:1982:QDA

[See82] Wolfgang Seewald. Quotienten-Differenzen-Algorithmus: Beweis der Regeln von Rutishauser. (German) [Quotient–difference algorithm: proof of Rutishauser's rule]. *Numerische Mathematik*, 40 (1):93–98, November 1982. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic). URL `http://link.springer.com/article/10.1007/BF01459078`.

Soriano:1988:RMM

[SF88] H. L. Soriano and F. Venâncio Filho. On Rutishauser's modified method for computing the eigenvalues of real tridiagonal symmetric matrices. *Computers and Structures*, 29(1):151–154, 1988. CODEN CMSTCJ. ISSN 0045-7949 (print), 1879-2243 (electronic).

Shield:1967:BGB

[SGR+67] R. T. Shield, Th. Ginsburg, H. Rutishauser, K. Hutter, F. Weinberg, L. S. Dzung, W. Saxer, and P. Huguenin. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 18(2):298–300, March 1967. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01596927`.

Soriano:1982:RMM

[Sor82] Humberto Lima Soriano. Rutishauser's modified method for computing the eigenvalues of symmetric matrices. *Computer Methods in Applied Mechanics and Engineering*, 35(3):255–269, 1982. CODEN CMMECC. ISSN 0045-7825 (print), 1879-2138 (electronic).

Speiser:1998:EYI

[Spe98] Ambros P. Speiser. The early years of the institute: Acquisition and operation of the Z4, planning of the ERMETH. Report, De-

partment of Computer Science, ETH Zürich, Zürich, Switzerland, 1998.

Speiser:1999:EYI

[Spe99] Ambros P. Speiser. The early years of the institute: Acquisition and operation of the Z4, planning of the ERMETH. *Mitteilungen der Gesellschaft für Angewandte Mathematik und Mechanik*, 22 (2):159–168, ???? 1999. ISSN 0936-7195.

Stiefel:1961:RCI

[SR61] Edouard Stiefel and Heinz Rutishauser. Remarques concernant l'intégration numérique. (French) [Notes on numerical integration]. *Comptes rendus de l'Académie des sciences, Paris*, 252: 1899–1900, 1961. ISSN 0001-4036 (print), 2419-6304 (electronic).

Stutz:1953:BGB

[SRDH+53] Th. Stutz, E. Roth-Desmeules, F. Held, F. Lüdi, and H. Rutishauser. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 4(2):163–166, March 1953. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF02067587`.

Scherrer:1952:BGB

[SRP52] P. Scherrer, H. Rutischauser, and M. Plancherel. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 3(3):238–240, May 1952. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `https://link.springer.com/article/10.1007/BF02008836`.

Schwarz:1973:NAS

[SRS73] H. R. Schwarz, H. Rutishauser, and E. Stiefel. *Numerical Analysis of Symmetric Matrices*. Prentice-Hall, Upper Saddle River, NJ 07458, USA, 1973. ISBN 0-13-626556-1. xi + 276 pp. LCCN QA263 .S3313.

Sauer:1968:MHI

[SS68] R. Sauer and I. Szabó, editors. *Mathematische Hilfsmittel des Ingenieurs. Teil III. (German) [Engineer's mathematical tools. Part III]*, volume 141 of *Die Grundlehren der mathematischen Wissenschaften*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1968. ISBN 3-642-95030-2, 3-642-95031-0. xix + 535 pp. LCCN QA76 .B3192. Herausgegeben

von R. Sauer und I. Szabó. Unter Mitwirkung von H. Neuber, W. Nürnberg, K. Pöschl, E. Truckenbrodt und W. Zander.

Stiefel:1963:BGB

[SSG+63] E. Stiefel, W. Saxer, W. Gerber, H. Rutishauser, P. Junod, U. Hochstrasser, W. Furrer, G. Epprecht, Ch. Clavuot, and W. Schumann. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 14(1):97–100, January 1963. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01601151`.

Stetter:1969:BRH

[Ste69] H. J. Stetter. Book review: H. R. Schwarz, H. Rutishauser und E. Stiefel, Numerik symmetrischer Matrizen (Leitfaden der angewandten mathematik und Mechanik, Bd. 11). *Computing*, 4(4): 386, December 1969. CODEN CMPTA2. ISSN 0010-485X (print), 1436-5057 (electronic).

Stewart:1978:BRV

[Ste78] G. W. Stewart. Book review: *Vorlesungen über numerische Mathematik*, by Heinz Rutishauser. *Bulletin of the American Mathematical Society*, 84(4):660–664, July 1978. CODEN BAMOAD. ISSN 0002-9904 (print), 1936-881X (electronic).

Strang:1961:BRR

[Str61] W. Gilbert Strang. Book review: *Refined iterative methods for computation of the solution and the eigenvalues of self-adjoint boundary value problems*. By M. Engeli, Th. Ginsburg, H. Rutishauser, E. Stiefel. Birkhäuser Verlag, Basel, Stuttgart, 1959. 107 pp. $3.95. *Quarterly of Applied Mathematics*, 18(4): 374, 386, January 1961. CODEN QAMAAY. ISSN 0033-569X (print), 1552-4485 (electronic). URL `https://www.jstor.org/stable/43634808`.

Symm:1981:EBC

[SW81] H. J. Symm and J. H. Wilkinson. Error bounds for computed invariant subspaces. Research Report 81-02, Seminar für Angewandte Mathematik, Eidgenössische Technische Hochschule, ETH-Zentrum CH-8092 Zurich, Switzerland, 1981. Lecture presented at a Symposium in honour of H. Rutishauser, October 15–17, 1980.

Todd:1952:BRP

[Tod52] John Todd. Book review: *Programmgesteuerte digitale Rechengeräte (elektronische Rechenmaschinen)*, By H. Ruthishauser, A. Speiser, and E. Stiefel. (Mitteilungen aus dem Institut fur angewandte Mathematik, no. 2.) Basel, Birkhäuser, 1951. 102 pp. 8.50 Swiss fr. *Bulletin of the American Mathematical Society*, 58(2):278–279, March 1952. CODEN BAMOAD. ISSN 0002-9904 (print), 1936-881X (electronic).

Thompson:2015:RAB

[TT15] Mary Clair Thompson and Tin-Yau Tam. Rutishauser's *LR* algorithm and Bruhat iteration. *Linear Multilinear Algebra*, 63(10): 2061–2070, 2015. CODEN LNMLAZ. ISSN 0308-1087 (print), 1563-5139 (electronic).

vandenHovedErtsenryck:2019:NIO

[van19] Gauthier Marie Claude Jean Thérèse Gérald van den Hove d'Ertsenryck. *New Insights from Old Programs: The Structure of The First ALGOL 60 System*. Ph.D. thesis, Centrum Wiskunde & Informatica (CWI), Informatics Institute, Faculty of Science, Universit of Amsterdam, Amsterdam, The Netherlands, February 2019. ???? + 302 pp. URL `https://hdl.handle.net/11245.1/8ecd6e9b-767d-44ab-84a7-8eed35822da5; https://ir.cwi.nl/pub/28427/`. Preface by Donald E. Knuth.

vonMuralt:1951:BGB

[vMNJ+51] A. von Muralt, P. Niggli, M. Jeger, M. Strutt, Th. Erismann, H. Ziegler, W. Zünti, H. Rutishauser, A. P. Speiser, G. Trümpler, and W. Stutz. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 2(5):412–420, September 1951. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF02579705`.

Watkins:1990:RAS

[WE90] D. S. Watkins and L. Elsner. On Rutishauser's approach to self-similar flows. *SIAM Journal on Matrix Analysis and Applications*, 11(2):301–311, April 1990. CODEN SJMAEL. ISSN 0895-4798 (print), 1095-7162 (electronic).

Weiss:1988:BOP

[Wei88] Eric A. Weiss. Biographies: Oh, pioneers! *Annals of the History of Computing*, 10(4):348–361, October/December 1988. CODEN AHCOE5. ISSN 0164-1239. URL `http://dlib.computer.org/an/books/an1988/pdf/a4348.pdf; http://www.computer.org/annals/an1988/a4348abs.htm`.

Wilkinson:1971:LA

[WR71] James H. Wilkinson and Christian Reinsch, editors. *Linear Algebra*, volume II of *Handbook for Automatic Computation*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1971. ISBN 0-387-05414-6, 3-540-05414-6, 3-662-38854-5, 3-662-39778-1. viii + 439 pp. LCCN QA251 .W67. URL `http://www.springerlink.com/content/978-3-662-39778-7`.

Weber:1963:BGB

[WRDF+63] H. Weber, E. Roth-Desmeules, W. Furrer, R. Jost, H. R. Schwarz, D. Rivier, G. Epprecht, H. Rutishauser, P. Schmid, P. Läuchli, B. Federer, J. Ackeret, H. Schmid, W. Känzig, Hs. H. Günthard, and H. Ziegler. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 14(4):390–396, July 1963. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01603100`.

Weber:1956:BGB

[WRDG+56] H. Weber, E. Roth-Desmeules, Ed. Gerecke, E. Stiefel, H. Rutishauser, M. Jeger, W. Hoppe, H. Favre, J. Zeller, and A. A. Rusterholz. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 7(3):265–272, May 1956. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF02044475`.

Ziegler:1962:BGB

[ZGR62] H. Ziegler, Ed. Gerecke, and H. Rutishauser. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 13 (2):199–200, March 1962. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01594144`.

Zielke:1981:VTR

[Zie81a] G. Zielke. Verallgemeinerungen einer Testmatrix von Rutishauser mit exakten Moore–Penrose-Inversen. (German) [Generalizations of a test matrix of Rutishauser with exact Moore–Penrose inverses]. *Zeitschrift für Angewandte Mathematik und Mechanik*, 61 (12):662–663, 1981. CODEN ZAMMAX. ISSN 0044-2267 (print), 1521-4001 (electronic).

Zielke:1981:GRT

[Zie81b] Gerhard Zielke. Generalizations of a Rutishauser test matrix with exact Moore–Penrose inverses. *ACM SIGNUM Newsletter*, 16(3): 7–8, September 1981. CODEN SNEWD6. ISSN 0163-5778 (print), 1558-0237 (electronic).

Zuber:1966:BGB

[ZPS+66] R. Zuber, P. Profos, Bruno Scarpellini, W. Saxer, P. J. Huber, A. Huber, H. R. Schwarz, G. Epprecht, A. A. Witt, Ch. Wehrli, H. Ziegler, H. Rutishauser, D. Rivier, D. B. McVean, F. Weinberg, and I. Zschokke-Gränacher. Buchbesprechungen. (German) [Book reviews]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 17(6): 794–800, November 1966. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic). URL `http://link.springer.com/article/10.1007/BF01595119`.