

Peter Henrici 1923-1987

kleiner Dienstnachlass

Other Publication

Author(s):

Henrici, Peter

Publication date:

1992

Permanent link:

<https://doi.org/10.3929/ethz-a-000667835>

Rights / license:

In Copyright - Non-Commercial Use Permitted

Originally published in:

Handschriften und Autographen der ETH-Bibliothek 178

Handschriften und Autographen der ETH-Bibliothek

178

P e t e r H e n r i c i

K l e i n e r D i e n s t n a c h l a s s

Zürich: Wissenschaftshistorische Sammlungen
der ETH-Bibliothek 1992

Peter Henrici (1923 - 1987)
dipl.El.-Ing. & dipl.Math.ETH
Dr. der Mathematik & Prof. f.höhere Mathematik ETH

K l e i n e r D i e n s t n a c h l a s s

Inhaltsverzeichnis

	Seite
Notizen von (fremden) Vorträgen, Diplomarbeit	1
Einige wenige Briefe	2
Nekrolog (Gutknecht, Marti)	3
Curriculum vitae (1953)	4
Bibliographie	5

Notizen von (fremden) Vorträgen 1962 - 1979, geordnet nach den
Vortragenden / Henrici, Peter. - 1962-79
Dossier A - C Hs 1321:1

Notizen von (fremden) Vorträgen 1962 - 1979, geordnet nach den
Vortragenden / Henrici, Peter. - 1962-79
Dossier D - G Hs 1321:2

Notizen von (fremden) Vorträgen 1962 - 1979, geordnet nach den
Vortragenden / Henrici, Peter. - 1962-79
Dossier H - L Hs 1321:3

Notizen von (fremden) Vorträgen 1962 - 1979, geordnet nach den
Vortragenden / Henrici, Peter. - 1962-79
Dossier M - Q Hs 1321:4

Notizen von (fremden) Vorträgen 1962 - 1979, geordnet nach den
Vortragenden / Henrici, Peter. - 1962-79
Dossier R - St Hs 1321:5

Notizen von (fremden) Vorträgen 1962 - 1979, geordnet nach den
Vortragenden / Henrici, Peter. - 1962-79
Dossier T - Z Hs 1321:6

Notizen von (fremden) Vorträgen 1980, geordnet nach den Vor-
tragenden / Henrici, Peter. - 1980
2 Dossiers: A - L, M - Z Hs 1321:7-8

Notizen von (fremden) Vorträgen 1981- 1985, geordnet nach den
Vortragenden / Henrici, Peter. - 1981-85
Dossier A - Z Hs 1321:9

Ueber die Lösung von ebenen Potentialproblemen mit scharfen
und abgerundeten Ecken durch konforme Abbildung. Diplomarbeit
ETH Zürich / Henrici, Peter. - 1948

161 Bl.

302836 (Hs)

E b e r l e i n, Patricia J. (1925-
Prof.Dr., Mathematikerin (Oxford)

Hs 1321: 10

Brief (Durchschlag) Henricis an Eberlein / Eberlein, Patricia J.. -
1970/X./31.
1 Bl./S. Hs 1321:10

H e n r i c i, Peter (1923- 1987)
Prof.f.höhere Mathematik ETHZ

Hs. 621: 680

Brief an den Mathematiker Heinz Hopf.
1964 XI.19. Rüslikon 1 Bl./1 S. Typoskr. dt.

R u t i s h a u s e r, Heinz (1918-1970)
Prof.f.Computerwissenschaft ETHZ

Hs. 913: 123-124

Briefwechsel mit Peter Henrici, Prof.f.angew.Mathematik ETHZ.
123. 1970 IX.25. Zürich (Henrici) 1 Bl./1 S. Typoskr. dt.
124. 1970 X.5. [Zürich] (Rutishauser) 1 Bl./1 S. Typoskr.-Kopie dt.

S a x e r, Walter (1896-1974)
Prof.f.höh.Mathematik ETHZ

Hs. 377a: 20

Brief an den Mathematiker Peter Henrici.
1962 V.23. Zürich 1 Bl./1 S. Xerokopie dt.

LITERATURLISTE PROF. P. HENRICI

1. Ueber die Lösung von ebenen Potentialproblemen mit scharfen und abgerundeten Ecken durch konforme Abbildungen; Abb.; Taf.; 161 Bl. (Diplomarbeit ETH)
Zürich 1948. TH 302 836 q
2. Zur Berechnung der Eigenwerte von Matrizen durch Lochkartenmaschinen.
= Zeitschrift für Angewandte Mathematik und Physik.
Bd. 1(1950), S. 185-189. TH P 711 156:1(1950)
3. Bergmans Integraloperator erster Art und Riemannsche Funktion.
= Zeitschrift für Angewandte Mathematik und Physik.
Bd. 3(1952), S. 228-232. TH P 711 156:3(1952)
4. Weitere Bemerkung zu $\int e^{b(x+a \cos x)} dx$.
= Zeitschrift für Angewandte Mathematik und Physik.
Bd. 3(1952), S. 466.468. TH P 711 156:3(1952)
5. Zur Funktionentheorie der Wellengleichung; mit Anwendungen auf spezielle Reihen und Integrale mit Besselschen, Whittakerschen und Mathieuschen Funktionen; 59 S.; Diss.Math.ETH, Nr. 2191.
Zürich: Orell Füssli 1953.
= SA aus: Commentarii mathematici helvetici, vol. 27, fasc. 3/4, pp. 235-293. TH Diss ETH 2191
6. A Neumann series for the product of two Whittaker functions.
= Proceedings of the American Mathematical Society.
Vol.4(1953), p. 329-334. TH P 711 171:4(1953)
7. Ueber die Funktionen von Gegenbauer.
= Archiv der Mathematik.
Bd. 5(1954), S. 92-98. TH P 710 094:5(1954)

8. On rotational viscous flow through a tube.
= Zeitschrift für Angewandte Mathematik und Physik.
Bd. 5(1954), S. 511-516. TH P 711 156:5(1954)
9. Application of two methods of numerical analysis
to the computation of the reflected radiation of
a point source.
= Journal of the Washington Academy of Science.
Vol. 45(1955), S. 38-45. TH P 812 258:45(1955)
10. Addition theorems for general Legendre and Gegen-
bauer functions.
= Journal of Rational Mechanics and Analysis.
Vol. 4(1955), p. 983-1018. TH P 711 249:4(1955)
11. On certain expansions involving Whittaker functions
and Jacobi polynomials.
= Pacific Journal of Mathematics.
Vol. 5(1955), p. 725-744. TH P 711 234:5(1955)
12. On generating functions of the Jacobi polynomials.
= Pacific Journal of Mathematics.
Vol. 5(1955), p. 923-931. TH P 711 234:5(1955)
13. On helical springs of finite thickness.
= Quarterly of Applied Mathematics.
Vol. 13(1955), p. 106-110. TH P 710 856:13(1955)
14. Kleine Bemerkung zur asymptotischen Entwicklung
des Fehlerintegrals.
= Zeitschrift für Angewandte Mathematik und Physik.
Bd. 6(1955), S. 145-146. TH P 711 156:6(1955)
15. A subroutine for computations with rational numbers.
= Journal of the Association for Computing Machinery.
Vol. 3(1956), p. 6-9. TH P 712 450:3(1956)
16. Automatic computations with power series.
= Journal of the Association for Computing Machinery.
Vol. 3(1956), p. 10-15. TH P 712 450:3(1956)
17. On the domain of regularity of generalized axially
symmetric potentials.
= Proceedings of the American Mathematical Society.
Vol. 8(1957), p. 29-31. TH P 711 171:8(1957)

18. A survey of I.N.Vekua's theory of elliptic partial differential equations with analytic coefficients.
 = Zeitschrift für Angewandte Mathematik und Physik.
 Bd.8(1957), S. 169-203. TH P 711 156:8(1957)
19. On the representation of a certain integral involving Bessel functions by hypergeometric series.
 = Journal of Mathematics and Physics.
 Vol. 36(1957), p. 151-156. TH P 78 888:36(1957)
20. On the product of two Kummer series.
 = Canadian Journal of Mathematics
 Vol. 10(1958), p. 463-467. TH P 711 151:1/(1958)
21. On the speed of convergence of cyclic and quasi-cyclic Jacobi methods for computing eigenvalues of Hermitian matrices.
 Journal of the Society for Industrial and Applied Mathematics.
 Vol. 6(1958), p. 144-162. TH P 711 422:6(1958)
22. The quotient-difference algorithm.
 = National Bureau of Standards. Applied Mathematics Series.
 No. 49(1958), p. 23-46. TH P 712 098:49(1958)
23. - & G.E.FORSYTHE
 The cyclic Jacobi method for computing the principal values of a complex matrix.
 41, VI p.
 Standford 1958. TH P 711 305: 74
 = Stanford University: Applied Mathematics and Statistics Laboratory; technical report no. 74.
24. Theoretical and experimental studies on the accumulation of error in the numerical solution of initial value problems for systems of ordinary differential equations.
 = Information Processing, pp. 36-44.
 Paris a.o.: 1960 TH 301 178
25. The propagation of round-off error in the numerical solution of initial value problems involving ordinary differential equations of the second order.
 = Symposium on the numerical treatment of ordinary differential equations, integral and integro-differential equations; Rome, 1960. pp. 275-291.
 Basel: Birkhäuser 1960. TH N 754

26. Complete systems of solutions for a class of singular elliptic partial differential equations.
= Boundary problems in differential equations.
pp. 19-34.
Madison: University of Wisconsin Press 1960. TH P 714 728:2
27. - & G.E.FORSYTHE
The cyclic Jacobi method for computing the principal values of a complex matrix.
= Transactions of the American Mathematical Society.
Vol. 94(1960), p. 1-23. TH P 710 470:94(1960)
28. - & R.CAUSEY
Convergence of approximate eigenvectors in Jacobi methods.
= Numerische Mathematik.
Bd. 2(1960), p. 67-78. TH P 712 132:2(1960)
29. Two remarks on the Kantorovich inequality.
= American Mathematical Monthly.
Vol. 68(1961), p. 904-906. TH P 712 621:68(1961)
30. - & K.M.BROWN
Sign wave analysis in matrix eigenvalue problems.
= Mathematics of Computation.
Vol. 16(1962), p. 291-300. TH P 710 876:16(1962)
31. Discrete variable methods in ordinary differential equations; 407 p.; ill.
New York: Wiley 1962. TH 715 566
32. Bounds for iterates, inverses, spectral variation and fields of values of non-normal matrices.
= Numerische Mathematik.
Bd. 4(1962), p. 24-40. TH P 712 132: 4(1962)
33. Lecture notes on elementary numerical analysis. Prepared for use at the Summer Institute for Numerical Analysis, University of California at Los Angeles, 1962.
New York: Wiley 1962.
34. Error propagation for difference methods; VI, 73 p.
New York a.o: Wiley 1963. TH 716 420

35. Problems of stability and error propagation in the numerical integration of ordinary differential equations.
 = Proceedings of the International Congress of Mathematicians, Stockholm 1962.
 p. 102-113.
 Djursholm: Inst. Mittag-Leffler, 1963. TH 716 478
36. Some applications of the quotient-difference algorithm.
 = Proceedings of the Symposia in Applied Mathematics.
 Vol. 15(1963), p. 159-183. TH P 711 371a:15(1963)
37. Bounds for eigenvalues of certain tridiagonal matrices.
 = Journal of the Society for Industrial and Applied Mathematics.
 Vol. 11(1963), p. 281-290. TH P 711 422:11(1963)
- 38 An algebraic proof of the Lagrange-Bürmann formula.
 = Journal of Mathematical Analysis and Applications.
 Vol. 8(1964), p. 218-224. TH P N 96: 8(1964)
39. Vorlesungen über Analysis I (Mathematik I).
 322 p.; Ill. (Ringheft, Masch.vervielf.).
 Zürich: ETH 1964. TH 717 311 q
40. Elements of numerical analysis; XV, 328 p.
 fig.; tab.;
 New York a.o.: Wiley 1964. TH 718 032
41. - & B.O.WATKINS
 Finding zeros of a polynomial by the O-D algorithm.
 = Communications of the Association for Computing Machinery.
 Vol. 8(1965), p. 570-574. TH P 712 253:8(1965)
42. The propagation of error in the digital integration of ordinary differential equations.
 = Error in Digital Computation, Vol. 1
 Proc. Advanced Seminary conducted by Mathematical Research Center, U.S. Army, University of Wisconsin, Madison 1964.
 pp. 185-205.
 New York a.o.: Wiley 1965. TH P 714 728:14

43. Error bounds for computations with continued fractions.
 = Error in Digital Computation, Vol. 2.
 Proceedings Symposium Mathematical Research Center, U.S.Army, University of Wisconsin, 1965.
 pp. 39-53.
 New York a.o.: Wiley 1965. TH P 714 728:15
44. An algorithm for analytic continuation.
 = SIAM Journal of Numerical Analysis.
 Vol. 3(1966), no. 1, p. 67-78. TH P 711 422:3(1966)
45. - & A.PFLUGER
 Truncation error estimates for Stieltjes fractions.
 = Contemporary Problems in Theory of Analytic Functions; Internat. Conference, Errevan, 1965.
 pp. 257-263 (russisch).
 Izdat. "Nauka" Moscow, 1966.
46. - & A.PFLUGER
 Truncation error estimates for Stieltjes fractions.
 = Numerische Mathematik.
 Bd. 9(1966), S. 120-138. TH P 712 132:9(1966)
47. - & L.FOX & C.MOLER
 Approximations and bounds for eigenvalues of elliptic operators.
 = SIAM Journal of Numerical Analysis.
 Vol. 4(1967), p. 89-102. TH P 711 422:4(1967)
48. - & I.GARGANTINI
 A continued fraction algorithm for the computation of higher transcendental functions in the complex plane.
 = Mathematics of Computation.
 Vol. 21(1967), p. 18-29. TH P 710 876:21(1967)
49. - & K.ZIMMERMANN
 An estimate for the norms of certain cyclic Jacobi operators.
 = Linear Algebra and its Applications.
 Vol. 1(1968), p. 489-501. TH P 712 872:1(1968)
50. - & A.HUBER
 Analysis; (Autographie der Vorlesung) an den Abteilungen II, IIIA, IIIB & VIII der ETH Zürich.
 3 Bände.
 Zürich: Verlag des Akademischen Maschinen- und Elektro-Ingenieur-Vereins & Verlag des Akademischen Ingenieur-Vereins an der ETH, 1969 - 1977. TH 720 059 q

51. Uniformly convergent algorithms for the simultaneous determination of all zeros of a polynomial.
 = Studies in Numerical Analysis, 2: Numerical Solutions of Nonlinear Problems (Symposia, SIAM) p. 1-8.
 Philadelphia: Society for Industrial and Applied Mathematics, 1970. TH P 713 126: 2
52. Table erratum: Discrete variable methods in ordinary differential equations.
 = Mathematics of Computation.
 Vol.24(1970), no. 112, p. 1000. TH P 710 876: 24(1970)
53. Methods of search for solving polynomial equations.
 = Journal of the Association of Computing Machinery.
 Vol.17(1970), no. 2, p. 273-283. TH P 712 450:17(1970)
54. - & B.A.TROESCH & L.WUYTACK
 Sloshing frequencies for a half-space with circular or strip-like aperture.
 = Zeitschrift für Angewandte Mathematik und Physik.
 Bd. 21(1970), S. 285-318. TH P 711 156:21(1970)
55. Upper bounds for the abscissa of stability of a stable polynomial.
 = SIAM Journal of Numerical Analysis.
 Vol.7(1970), no.4, p. 538-544. TH P 711 422b:7(1970)
56. Circular arithmetic and the determination of polynomial zeros.
 = Conference on Applications of Numerical Analysis, University of Dundee, 1971.
 = Lecture Notes in Mathematics.
 Vol. 228(1971), p. 86-92. TH P 712 565:228
57. My favorite proof of Mehler's integral.
 = American Mathematical Monthly.
 Vol. 78(1971), p. 183-185. TH P 712 621:78(1971)
58. An algorithm for the incomplete decomposition of a rational function into partial fractions.
 = Zeitschrift für Angewandte Mathematik und Physik.
 Bd.22(1971), S. 751-755. TH P 711 156:22(1971)

59. - & I.GARGANTINI
Circular arithmetic and the determination of poly-
nominal zeros.
= Numerische Mathematik.
Bd. 18(1971), S.305-320. TH P 712 132:18(1971)
60. Komplexe Analysis für Ingenieur. (Autographie
der Vorlesung); ill.; 221 Bl.
Zürich: Akademischer Maschinen- und Elektro-
Ingenieur-Verein, 1971. TH 722 369 g
61. - & F.BALTAGI & A.BAUDER & T.UEDA & Hs.H.GUNTARD
Exact solution to the rotation-ring-puckering
problem of D/SUB 4H/-D/SUB 2D/ four-membered ring
molecules by matrix diagonalization.
= Molecular Physics.
Vol. 24(1972), no. 5, p. 945-968. TH P 712 057:24(1972)
62. Reflections of a teacher of applied mathematics.
= Quarterly of Applied Mathematics.
Vol.30(1972), no.1, p.31-39. TH P 710 856:30(1972)
63. Elemente der numerischen Analysis;
(Originaltitel: Elements of numerical analysis).
2 Bände.
Mannheim u.a.: Bibliographisches Institut 1972.
= B.I. Hochschultaschenbücher, 551 & 562. TH 722 663
64. Computational complex analysis.
(The influence of computing on mathematical research
and ecuation.)
= Proceedings of the Symposia in Applied Mathematics.
Vol. 20(1974), p. 79-86. TH P 711 371a:2/(1974)
65. Applied and computational complex analysis.
Vol.1: Power series - integration - conformal
mapping - location of zeros; XV, 682 p.
New York a.o.: Wiley 1974. TH P 712 110:37/1
66. Fast algorithms for rational powers of formal
power-series.
= Notices of the American Mathematical Society.
Vol.22(1975), no. 5, p. A594. TH P 711 408:22(1975)
67. - & M.L.HENRICI
Lagrange-Burmann formula for systems of formal
power-series.
= Notices of the American Mathematical Society.
Vol. 22(1975), no. 5, p. A557. TH P 711 408:22(1975)

68. - & C.HOFFMANN
Chess champs chances - exercises in asymptotics.
= SIAM Review.
Vol. 17(1975), no. 3, p. 559-564. TH P N 117:17(1975)
69. Einige Anwendungen der schnellen Fouriertransformation.
= Moderne Methoden der numerischen Mathematik.
Tagung zur 200-Jahrfeier d.Technischen Universität Clausthal, 1975.
= International Series in Numerical Mathematics.
Bd.32(1976), p. 111-124. TH P 712 368:32
70. Error propagation for difference methods.
VI, 73p. (Reprint).
Huntington,N.A.:R.E.Krieger Publ. 1977.
71. Applied and computational complex analysis.
Vol.2: Special functions - integral transforms - asymptotics - continued fractions; IX, 662 p.
New York a.o.: Wiley 1977. TH P 712 110:37/2
72. Note on a theorem of Saff and Varga.
= Pade and rational approximation; Proceedings of an International Symposium, University of South Florida, Tampa, 1976.
pp. 157 - 161.
New York: Academic Press, 1977. TH 728 601
73. Computational analysis with the HP 25 pocket calculator; XI, 279 p.
New York a.o.: Wiley 1977. TH 728 143.
74. - & R.JELTSCH-FRICKER
Komplexe Analysis für Ingenieure; fig.;
Bd. 1-2 ff.
Basel: Birkhäuser 1977-80 ff.
= Uni-Taschenbücher, 627-628 ff. TH 728 010
75. Analytische Rechenverfahren für den Taschenrechner HP-25; (Originaltitel: Computational analysis with the HP-25 pocket calculator, 1977); fig.; tab.; 214 S.
München a.o.: Oldenbourg 1978. TH 729 160
76. Fast Fourier methods in computational complex analysis; 91 l.
Zürich 1978.
= Seminar für angewandte Mathematik - ETH; research report, no. 78-04. TH P 714 909:1978/04

77. Barycentric formulas for interpolating trigonometric polynomials and their conjugates.
= Numerische Mathematik.
Vol.33(1979), no.2,p.225-234. TH P 712 132: 33(1979)
78. Fast Fourier methods in computational complex analysis.
= SIAM Review.
Vol. 21(1979), no.4, p. 481-527. TH P N 117: 21(1979)
79. Zur numerischen Berechnung der Fresnelschen Integrale.
= Zeitschrift für Angewandte Mathematik und Physik.
Bd. 30(1979), No. 2, S.209-219. TH P 711 156:30(1979)
80. - & J.WALDVOGEL & U.KIRCHGRABER & HR.SCHWARTZ
Eduard Stiefel 1909-1978.
= Zeitschrift für Angewandte Mathematik und Physik.
Bd.30(1979), Nr. 2, S.133-142. TH P 711 156:30(1979)
81. - u.a.
Insensitive central limit-theorem.
= American Mathematical Monthly.
Vol. 86(1979), Nr. 9, p. 788-790. TH P 712 621:86(1979)
82. - u.a.
Functional inequality.
= American Mathematical Monthly.
Vol. 86(1979), Nr. 8, p. 706-707. TH P 712 621:86(1979)
83. - & A.HUBER
Analysis; (Autographie der Vorlesung) an den
Abteilungen II, IIIA, IIIB & VIII der ETH Zürich;
Aufl. 3, unverände; Bd. 2 ff.
Zürich: Verlag der Fachvereine 1979 ff. TH 720 059 q
84. - & R.BAILLIE & R.JOHNSONBAUGH
Evaluations of trigonometric series.
= American Mathematical Monthly.
Vol. 87(1980), No. 6, p. 496-498. TH P 712 621:87(1980)
85. Essentials of numerical analysis; with pocket
calculator demonstrations.
Wiley, New York, 1982.
86. - & M.L. HENRICI
Numerical analysis demonstrations on
the HP-33E.
Wiley, New York, 1982. TH 732 506
87. Solution manual, essentials of numerical analysis
with pocket calculator demonstrations.
Wiley, New York, 1982.

Herausgeber oder Mitherausgeber

88. Michigan University. College of Engineering.
Advanced numerical analysis; an intensive course
for practicing scientists and engineers by Peter
Henrici and others; Summer session, 1960.
Ann Arbor 1960.
89. Constructive aspects of the fundamental theorem
of algebra; Proceedings of a symposium conducted
at the IBM Research Laboratory, Zürich-Rüschlikon,
June 5-7, 1967; ed. by B.Dejon & P.Henrici;
fig.; tab.; VII 337 p.
London: Wiley 1969. TH 720 185
90. RUTISHAUSER, H.
Vorlesungen über numerische Mathematik. Bd. 1
Gleichungssysteme, Interpolation und Approximation.
Herausg. u. Mitwirkung von P. Henrici, P.Läuchli &
H. Schwarz.
164 S.
Basel: Birkhäuser 1976.
= Lehrbücher und Monographien aus dem Gebiet der
exakten Wissenschaften. Mathematische Reihe,
Bd. 50. TH P 711 863: 50.
91. RUTISHAUSER, H.
Vorlesungen über numerische Mathematik. Bd. 2.
Differentialgleichungen und Eigenwertprobleme.
Herausg. v. M.Gutknecht unter Mitwirkung von
P.Henrici, P. Läuchli & H.Schwarz.
228 S.
Basel: Birkhäuser 1976.
= Lehrbücher und Monographien aus dem Gebiet der
exakten Wissenschaften. Mathematische Reihe.
Bd. 57. TH P 711 863: 57
92. Numerische Prozeduren aus Nachlass und Lehre von
Heinz Rutishauser.
Herausg. von W.Gander, L.Molinari, H.Svecova &
P.Henrici.
127 S.
Basel: Birkhäuser 1977.
= International Series of Numerical Mathematics,
vol. 33. TH P 712 368: 33
93. JONES, W.B. & W.J. THRON
Continued fractions; analytic theory and applications;
with a foreword by F.E.Browder; With an introduction
by P.Henrici; XXIX, 428 p.
Reading, Mass.: Addison-Wesley Publ. co.
= Encyclopedia of Mathematics and its Applications,
vol. 11. TH P 714 349: 11