

# Contents – Volume 2

II Papers in Spectral Theory .....	9
<i>Commentaries by Tosio Kato</i>	
[34–1] Spektraltheorie halbbeschränkter Operatoren und Anwendung auf die Spektralzerlegung von Differentialoperatoren .....	9
[34–2] Beiträge zur Theorie der Spektralschar .....	66
[35–1] Über die ausgezeichnete Randbedingung in der Spektraltheorie der halbbeschränkten gewöhnlichen Differentialoperatoren zweiter Ordnung .....	76
[38–1] Über die Spektralzerlegung eines Integraloperators.....	101
[48–1] Criteria for the discrete character of the spectra of ordinary differential operators .....	127
[48–8] On the perturbation of continuous spectra .....	145
[66–2] Spectral Perturbation Phenomena .....	192
III Papers in Elasticity .....	207
<i>Commentaries by Fritz John</i>	
[41–2] The non-linear boundary value problem of the buckled plate, (With J.J. Stoker) .....	207
[42–2] Buckling of the circular plate beyond the critical thrust, (With J.J. Stoker).....	258
[47–2] On the boundary-value problems of the theory of elasticity and Korn's inequality .....	266
IV Papers in Asymptotics .....	299
<i>Commentaries by Wolfgang Wasow</i>	
[46–1] Singular perturbations of non-linear oscillations, (With W. Wasow .....	299
[55–2] Asymptotic phenomena in mathematical physics .....	317
(Gibbs Lecture of American Mathematical Society)	

V Contributions to Magnetohydrodynamics .....	339
<i>by Harold Weitzner</i>	
[54-1] **Nonlinear wave motion in magneto-hydrodynamics .....	343
[78-1] Conservation equations and the laws of motion in classical physics .....	400
VI Papers involving Variational Problems.....	411
<i>Commentaries by Louis Nirenberg</i>	
[29-4] Ein Verfahren der Variationsrechnung, das Minimum eines Integrals als das Maximum eines anderen Ausdruckes darzustellen .....	411
[33-1] Über ein Minimumproblem für Potentialströmungen mit freiem Rande .....	421
VII Other Papers .....	444
[37-1] On certain inequalities and characteristic value problems for analytic functions and for functions of two variables .....	444
<i>Commentary by Peter D. Lax</i>	
[54-2] The existence of solitary waves, (With D.H. Hyers) .....	491
<i>Commentary by Louis Nirenberg</i>	
[55-1] Differential forms on Riemannian manifolds .....	527
<i>Commentary by Louis Nirenberg</i>	
[27-1] Eine invariante Formulierung des Newtonschen Gravitationsgesetzes und des Grenzüberganges vom Einsteinschen zum Newtonschen Gesetz.....	569
[80-1] Von Neumann's Hilbert space theory and partial differential equations, (Von Neumann Lecture to Society for Industrial and Applied Mathematics) .....	581
[81-1] Unobserved observables and unobserved causality .....	590
VIII Contributions to Quantum Mechanics .....	602
<i>by David Isaacson</i>	
Honorary Doctoral Degrees .....	606
Awards .....	607
Acknowledgements .....	608

\*\*Listed in Reports

# Contents – Volume 1

Foreword .....	9
<b>The Life of Kurt Otto Friedrichs</b>	
<i>by Constance Reid</i> .....	11
<b>Publications of Kurt Otto Friedrichs – 1927–1982</b>	
Published Papers .....	23
Books .....	29
Lecture Notes .....	30
Reports .....	32
<b>I Papers in partial differential equations .....</b>	<b>34</b>
<i>Commentaries by Peter D. Lax</i>	
[27–3] Über die Eindeutigkeit und das Abhängigkeitsgebiet der Lösungen beim Anfangswertproblem linearer hyperbolischer Differentialgleichungen, (With H. Lewy) .....	34
[28–2] Über die partiellen Differenzgleichungen der mathematischen Physik, (With R. Courant and H. Lewy) .....	49
[67–2] On the partial differential equations of mathematical physics (translation of [28–2]) .....	96
[44–1] The identity of weak and strong extensions of differential operators .....	117
[47–1] A theorem of Lichtenstein .....	139
[48–2] Nonlinear hyperbolic differential equations for functions of two independent variables .....	157
[53–4] On the differentiability of the solutions of linear elliptic differential equations .....	195
[32–1] Über fortsetzbare Anfangsbedingungen bei hyperbolischen Differentialgleichungen in drei Veränderlichen, (With H. Lewy) .....	225
[54–1] Symmetric hyperbolic linear differential equations .....	238

[58-1]	Symmetric positive linear differential equations.....	286
[65-1]	Boundary value problems for first order operators, (With P.D. Lax).....	375
[67-1]	On symmetrizable differential operators, (With P.D. Lax) ...	411
[71-1]	Systems of conservation equations with a convex extension, (With P.D. Lax) .....	423
<b>Acknowledgements .....</b>		<b>427</b>