THE PROCEEDINGS OF THE SYMPOSIA IN APPLIED MATHEMATICS

These symposia were held under the auspices of the American Mathematical Society and other interested organizations. The Society itself published the first two volumes. The McGraw-Hill Book Company, Inc. published and sold Numbers 3 through

By special arrangement with the McGraw-Hill Book Company, Inc., these six volumes have now been transferred to the American Mathematical Society. Orders henceforth should be placed through the Society.

Volume Price 1. Non-linear problems in mechanics W. Prager, Eric Reissner, J. J. Stoker. 1949, viii + 219 pp.

Papers by: Bergman, Bers, Birkhoff Brinkley Kiskward Cohoff, Brinkley, Kirkwood, Carrier Coburn and Dolph, rier, Coburn and Dolph, Drucker, Emmons, Friedrichs, Kaplan, Kuo, Lees, Levy, Lin, Murnaghan, Opatowski, Pola-chek and Seeger, Poritsky, Prager, Reissner, Sears, Stoker, Taub, Weinstein. 2. Electromagnetic theory. Editorial Committee: R. V. Churchill, Eric Reissner, A. H. Taub. 1950, iv + 91 pp.

Papers by: Duffin, Feenberg,
Feshbach, Heins, Infeld, Kac,
Pakeris, Ramberg, Rice, Lee, Pekeris, Ramberg, Rice, Stevenson, Synge, Taub, Truell, Wallman, Watson, Wiener.

3. Elasticity. Editorial Committee: \$3.00 Hashery. Editorial Committee:
R. V. Churchill, Eric Reissner, A.
H. Taub. 1950, vi + 233 pp.
Papers by: Carrier and Shaw,
Coburn, Friedrichs, Hay, Hildebrand, Holl, Lee, March, Perry, Poritsky, Prager and Symonds, Reissner, Seth, Sokolnikoff, Southwell, Stoker, Weinstein. 4. Fluid Dynamics. Edited by M. H. Sokolnikoff, \$6.00 Martin. 1953, vi + 186 pp.

Papers by: Birkhoff, Young and Zarantonello, Burgers, Buse-mann, Carrier and Yen, Chan-

drasekhar, DeGroot, Heins, Lin,

Martin and Thickstun, Meyer, Synge, Theodorsen, Thomas,

VolumePrice 5. Wave motion and vibration theory. Edited by A. E. Heins. 1954, vi + 169 pp. Papers by: Bleakney, Carrier and Munk, Chandrasekhar, Duffin and Schild, Garabedian, Heins and Feshbach, Lee, Lef-Chandrasekhar, schetz, Levine, Lin, Magnus McLachlan, Montroll and McLachlan, Montroll and Greenberg, Stoker, Weinstein. 6. Numerical analysis. Edited by J. H. Curtiss. 1956, vi + 303 pp. Papers by: Bellman, Bergman, Bruck, Clutterham and Taub, Fischbach, Frankel, Hastings, Hayward and Wong, Hestenes, Lehmer, Motzkin, Rosenbloom, Sard, Taussky, Tompkins, Walsh Warschawski Wasow Walsh, Warschawski, Wasow, Wielandt, Young. \$9.75 Wielandt, Young.

7. Applied probability. Edited by L.

A. MacColl. 1957, v + 104 pp.

Papers by: Batchelor, Doob,
Feller, Hopf, Kac, Koopman,
Lévy, Munch, Ulam.

8. Calculus of variations and its applications. Edited by L. M.

Graves 1958 v + 153 pp. \$5.00 Graves. 1958, v + 153 pp.

Papers by: Bellman, Chandrasekhar, Diaz, Drucker, Hodge, Keller, Reissner, Rothe, Schiffer, Synge, Weinberger.

IN PREPARATION:

\$7.50

- 9. Orbit theory. Edited by R. E. approx. \$8.00 Langer.
- 10. Combinatorial designs and analysis. Edited by R. E. Bellman.

25% discount to members of the American Mathematical Society

\$7.00



Synge, Ti Weinstein.

Order from

AMERICAN MATHEMATICAL SOCIETY

190 Hope Street, Providence 6, Rhode Island

CONTENTS

Vol. 3, No. 4	December,	
		Page
Die Eulersche Funktion endlicher auflösbarer Gruppen By Wolfgang Gaschütz		. 469
Strong converse of the coding theorem for semicontinuo By J. Wolfowitz	ous channels	. 477
Inversion of Toeplitz matrices By Alberto Calderón, Frank Spitzer, and Hard	OLD WIDOM	. 490
Algebraic Lie algebras and representative functions By G. Hochschild		. 499
Boolean rings and Banach lattices By B. J. Eisenstadt and G. G. Lorentz		. 524
The generalized backward Kolmogorov equation in abs By D. G. Austin	tract space	. 532
Various averaging operations onto subalgebras By Chandler Davis		. 538
Limiting theorems for Galton-Watson branching process By Norman Levinson	ss	. 554
Mean-L-stable systems By Joseph Auslander		566
The fundamental solution of a linear parabolic equa small parameter	tion containing	
By D. G. Aronson.		580

Published by the University of Illinois Press in March, June, September, and December. Supported in part by the George A. Miller Endowment. Printed by Waverly Press, Baltimore, Maryland.

The subscription price is \$9.00 a volume (four numbers); this is reduced to \$5.00 for individual members of the American Mathematical Society. The price of a single number is \$3.00. Subscriptions should be sent to the University of Illinois Press, Urbana, Illinois.