Mathematics of Computation

Beginning with Volume 16, Number 7, January 1962, The American Mathematical Society will publish the journal

MATHEMATICS OF COMPUTATION for the National Academy of Sciences-National Research Council.

TABLE OF CONTENTS

${\tt January~1962}$
Correlations and Spectra for Non-Stationary Random Functions Kampé de Fériet and François N. Frenkiel
On Numerical Integration of Ordinary Differential Equations ARNOLD NORDSIECK
Triple Product Integrals of Laguerre Functions . J. Gillis and M. Shimshoni
The Behavior of Pseudo-Random Sequences Generated on Computers by the Multiplicative Congruential Method V. D. BARNETT
A Note of the Convergence of Alternating Direction Methods . Milton Lees
Calculation of π to 100,000 Decimals Daniel Shanks and John W. Wrench, Jr.
TECHNICAL NOTES AND SHORT PAPERS
Characteristic Exponents of Mathieu Functions T. Tamer
An Algorithm for Solving Certain Polynomial Equations with Coefficient Parameters
A Remark Concerning the Solution of the Dirichlet Problem by Finite Differences
Reviews and Descriptions of Tables and Books Lieberman & Owen 1, Stanton 2, Shimpuku 3, National Physical Laboratory 4, Rosenthal & Rodden 5, Solodovnikov 6, Bendaniel & Carr 7, Frevel & Turley 8, Sagan 9, Coleman, Bozman & Meggers 10, Orcutt, Greenberger, Korbel & Rivlin 11, Dresher 12, Layton, Smith & Chatfield 13, Kammerer 14, Leeds & Weinberg 15, Peterson 16, Ungar 17
The journal is published quarterly in one volume per year. Subscription per year \$8.00 Single copies \$2.50

Send Orders to

AMERICAN MATHEMATICAL SOCIETY 190 Hope Street, Providence 6, Rhode Island

1	Page
On the mean values of certain trigonometrical polynomials II	
By J. E. LITTLEWOOD	1
The linear p -adic recurrence of order two By Morgan Ward	40
On two theorems of P. Erdös and A. Rényi By I. J. Schoenberg	53
Congruences for the partition function to composite moduli	
By Morris Newman	59
Approximate formulas for some functions of prime numbers By J. Barkley Rosser and Lowell Schoenfeld	64
On Lindelöf's conjecture concerning the Riemann zeta-function	01
By P. Turán	95
On complementary automorphic forms and supplementary Fourier series	
By Marvin Isadore Knopp and Joseph Lehner	98
A family of difference sets By Albert Leon Whiteman	107
On a theorem of Rademacher-Turán By P. Erdős	122
Another proof that bounded modular functions are constants	400
By T. Estermann	128
An inequality suggested by the theory of statistical inference	101
By Henry B. Mann	131
On the number of integers $\leq x$ whose prime factors divide n By N. G. de Bruijn	197
· · · · · · · · · · · · · · · · · · ·	191
Waring's problem for algebraic number fields and primes of the form $(p^r - 1)/(p^d - 1)$	
By Paul T. Bateman and Rosemarie M. Stemmler	142
The initial value problem for Maxwell's equations for two media sepa-	
rated by a plane By Fritz John	157
Two theorems on automorphic functions By Joseph Lehner	
The sign of the Gaussian sum By L. J. Mordell	
On positive harmonic polynomials By Gabor Szegö	
Imaginary quadratic fields with unique factorization	101
By Paul T. Bateman and Emil Grosswald	187

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.