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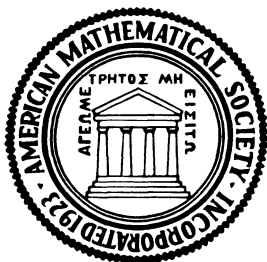
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# REVIEWS IN GRAPH THEORY

Compiled and Edited by William G. Brown  
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DEPARTMENT OF MATHEMATICS

This publication is a four-volume compendium of about 9,600 reviews in graph theory published by **Mathematical Reviews** in Volumes 1 through 56, i.e. between 1940 and 1978 inclusive. Reviews were selected from the several sections of **Mathematical Reviews** which were the usual repositories of such items; from the subject lists in **Mathematical Reviews** indexes, where available; and through a systematic perusal of about half of all reviews published by **Mathematical Reviews** during the 39 years under consideration. Every review cited in a selected review was also read, and the process iterated until stable.

A classification scheme containing over 500 categories was developed for the purpose. Every review has been assigned one primary classification and, on the average, one secondary classification. Reviews are reprinted in strict chronological order of **Mathematical Review** numbers in their primary subject area, with a brief citation at each secondary location.

The final volume provides a detailed author index, which can serve as an effective bibliography of the subject.

These volumes are a research tool. They are directed to anyone who has occasion to consult the literature of graph theory: mathematicians, computer scientists, engineers, and management scientists, as well as students, teachers, and practicing researchers.

The potential reader requires no more background than would be required to read papers which are reviewed in the compendium. These vary from highly erudite papers in other areas of mathematics where graph theory is used as a tool to solve specific problems, to elementary descriptive papers which would be understandable to high school students.

A few of the reviews are themselves gems of the mathematical literature. But, for the most part, the reader will use this book as a research tool—to determine what has been done in a particular area of the subject, or to locate known papers when the values of not all parameters are available.

There has been nothing of this scope or magnitude in the subject before. This is the first major bibliography in graph theory which incorporates reviews.

The editor's previous work includes research papers in graph theory and related fields, and many reviews.

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<b>John P. Boyd</b> , The Rate of Convergence of Hermite Function Series .....	1309
<b>Andrés Cruz and Javier Sesma</b> , Modulus and Phase of the Reduced Logarithmic Derivative of the Cylindrical Bessel Function .....	1317
<b>Henry E. Fettis</b> , On Some Trigonometric Integrals .....	1325
<b>David Levin</b> , On Accelerating the Convergence of Infinite Double Series and In- tegrals .....	1331
<b>Peter Wilker</b> , An Efficient Algorithm Solution of the Diophantine Equation $u^2 + 5v^2 = m$ .....	1347
<b>Michael Willett</b> , Arithmetic in a Finite Field .....	1353
<b>David W. Boyd</b> , Reciprocal Polynomials Having Small Measure .....	1361
<b>John Brillhart</b> , Note on Irreducibility Testing .....	1379
<b>Bennett Setzer</b> , The Determination of all Imaginary, Quartic, Abelian Number Fields with Class Number 1 .....	1383
<b>Curt Noll and Laura Nickel</b> , The 25th and 26th Mersenne Primes .....	1387
<b>Robert Baillie and Samuel S. Wagstaff, Jr.</b> , Lucas Pseudoprimes .....	1391
<b>G. V. Cormack and H. C. Williams</b> , Some Very Large Primes of the Form $k \cdot 2^m + 1$ .....	1419
<b>H. C. Williams</b> , Improving the Speed of Calculating the Regulator of Certain Pure Cubic Fields .....	1423
<b>Richard P. Brent</b> , The First Occurrence of Certain Large Prime Gaps .....	1435
<b>Reviews and Descriptions of Tables and Books</b> .....	1437
Conde 13, Davis 14, Duff & Stewart 15, Jablon & Simon 16, Wend- land 17, Parter 18, Te Reile 19, Mäki 20.	
<b>Table Erratum</b> .....	1444
Gradshteyn and Ryzhik 572; Morrison and Brillhart 573	
<b>Corrigendum</b> .....	1445
Krogh	
<b>Indices to Volumes XXXIV and XXXV</b> .....	1447

No microfiche supplement in this issue

# MATHEMATICS OF COMPUTATION

## TABLE OF CONTENTS

October 1980

<b>I. Babuška, J. Osborn and J. Pitkäranta, Analysis of Mixed Methods Using Mesh Dependent Norms</b> .....	1039
<b>Claes Johnson and J. Claude Nedelec, On the Coupling of Boundary Integral and Finite Element Methods</b> .....	1063
<b>Joseph E. Pasciak, Spectral and Pseudo Spectral Methods for Advection Equations</b> .....	1081
<b>Mitchell Luskin, A Finite Element Method for First-Order Hyperbolic Systems</b> ...	1093
<b>Juhani Pitkäranta, Local Stability Conditions for the Babuška Method of Lagrange Multipliers</b> .....	1113
<b>Charles I. Goldstein, Variational Crimes and <math>L^\infty</math> Error Estimates in the Finite Element Method</b> .....	1131
<b>G. J. Cooper and A. Sayfy, Additive Methods for the Numerical Solution of Ordinary Differential Equations</b> .....	1159
<b>Peter Alfeld, A Method of Skipping the Transient Phase in the Solution of Separably Stiff Ordinary Initial Value Problems</b> .....	1173
<b>C. P. Katti, Five-Diagonal Sixth Order Methods for Two-Point Boundary Value Problems Involving Fourth Order Differential Equations</b> .....	1177
<b>George F. Corliss, Integrating ODE's in the Complex Plane – Pole Vaulting</b> .....	1181
<b>Beny Neta, On Determination of Best-Possible Constants in Integral Inequalities Involving Derivatives</b> .....	1191
<b>Martin Stynes, On Faster Convergence of the Bisection Method for all Triangles...</b>	1195
<b>Warren E. Ferguson, Jr., The Construction of Jacobi and Periodic Jacobi Matrices With Prescribed Spectra</b> .....	1203
<b>Günter Meinardus and G. D. Taylor, Optimal Partitioning of Newton's Method for Calculating Roots</b> .....	1221
<b>Steven M. Serbin, On Factoring a Class of Complex Symmetric Matrices Without Pivoting</b> .....	1231
<b>Indu Mati Anand, Numerical Stability of Nested Dissection Orderings</b> .....	1235
<b>Thomas Ericsson and A. Ruhe, The Spectral Transformation Lanczos Method for the Numerical Solution of Large Sparse Generalized Symmetric Eigenvalue Problems</b> .....	1251
<b>M. Madalena Martins, On an Accelerated Overrelaxation Iterative Method for Linear Systems with Strictly Diagonally Dominant Matrix</b> .....	1269
<b>Philip Rabinowitz, The Exact Degree of Precision of Generalized Gauss-Kronrod Integration Rules</b> .....	1275
<b>Richard F. King, An Efficient One-Point Extrapolation Method for Linear Convergence</b> .....	1285
<b>Luigi Gatteschi, On Some Orthogonal Polynomial Integrals</b> .....	1291
<b>J. P. Vigneron and Ph. Lambin, Gaussian Quadrature of Integrands Involving the Error Function</b> .....	1299