

## CONTENTS

S. K. Pichorides. On the conjugate of bounded functions .....	143
Anton Zettl. A constructive characterization of disconjugacy .....	145
Larry Smith. New infinite families in the stable homotopy of spheres .....	148
F. J. Almgren, Jr. Existence and regularity almost everywhere of solutions to elliptic variational problems with constraints .....	151
Donald M. Davis and Mark Mahowald. A strong nonimmersion theorem for $R^{p+1}$ .....	155
Ulrich Koschorke. Framefields and nondegenerate singularities .....	157
Edward A. Bender and Norman P. Herzberg. Some diophantine equations related to the quadratic form $ax^2 + by^2$ .....	161
James E. West. Compact ANR's have finite type .....	163
Bengt Josefson. Weak sequential convergence in the dual of a Banach space does not imply norm convergence .....	166
N. K. Nikol'skiĭ. Analysis and synthesis for the point and unitary spectra. I .....	169
N. K. Nikol'skiĭ. Analysis and synthesis for the point and unitary spectra. II .....	173
Bang-yen Chen. Some integral inequalities of two geometric invariants .....	177
Frank Stenger. An algorithm for the topological degree of a mapping in $n$ -space .....	179
Kyong T. Hahn. Trigonometry on the unit ball of a complex Hilbert space .....	183
R. T. Miller. Mapping cylinder neighborhoods of some ANR's .....	187
Allan Calder. Uniformly trivial maps into spheres .....	189
T. Weight. Some subalgebras of $L^\infty(T)$ determined by their maximal ideal spaces ...	192
Christopher I. Byrnes. Closed algebras of smooth functions .....	195
Akio Fujii. A comparative study of the zeros of Dirichlet $L$ -functions .....	199
Richard Rochberg. Algebras of analytic functions on degenerating Riemann surfaces .....	202
Murray Cantor. Groups of diffeomorphisms of $R^n$ and the flow of a perfect fluid....	205
Karel Prikry. Ultrafilters and almost disjoint sets. II .....	209
Carlos A. Berenstein. The number of zeroes of an analytic function in a cone .....	213
Paul R. Wenzel. On local solvability of linear partial differential equations not of principal type .....	215
Frank H. Clarke. Maximum principles without differentiability .....	219

### COUNCIL, 1975

#### PUBLICATIONS COMMITTEE MEMBERS\*

Robert G. Bartle, Hyman Bass, James H. Bramble, Glen E. Bredon, Edgar H. Brown, Jr., Alberto P. Calderón, S. S. Chern, Philip T. Church, W. Wistar Comfort, Chandler Davis, Samuel Eilenberg, Robert M. Fossum, Walter Gautschi, Richard R. Goldberg, Paul R. Halmos, Alston S. Householder, Alexandra Ionescu-Tulcea, John L. Kelley, Alistair H. Lachlan, D. J. Lewis, Richard K. Miller, Barbara L. Osofsky, Jacob T. Schwartz, Stephen S. Shatz, I. M. Singer, Daniel W. Stroock, François Treves, Hans F. Weinberger, John W. Wrench, Jr.

#### OTHER MEMBERS OF THE COUNCIL

Paul Bateman, Anatole Beck, Lipman Bers, Raoul H. Bott, Charles W. Curtis, David Gale, Leonard Gillman, Michael Golomb, Walter Gottschalk, Mary W. Gray, Judy Green, Phillip A. Griffiths, Orville G. Harrold, Jr., Irving Kaplansky, Herbert B. Keller, Robion C. Kirby, Lee Lorch, Saunders Mac Lane, Arthur P. Mattuck, John W. Milnor, Cathleen S. Morawetz, Karl K. Norton, Franklin Peterson, Everett Pitcher, Murray H. Protter, Kenneth A. Ross, Jane Cronin Scanlon, J. Ernest Wilkins, Jr.

\*Research announcements, limited to 100 typed lines of 65 spaces each, may be submitted to those members of the Council who are members of the Publications Committees. Such announcements are intended to communicate outstanding results that are to be reported in full elsewhere.