

# Contents

Editor's Foreword	vii
Minimization of Length, Area, and Volume. Some Solved and Some Unsolved Problems in the Theory of Minimal Graphs and Surfaces A. T. FOMENKO	1
The Steiner Problem for Convex Boundaries, I: The General Case A. O. IVANOV and A. A. TUZHILIN	15
The Steiner Problem for Convex Boundaries, II: The Regular Case A. O. IVANOV and A. A. TUZHILIN	93
Effective Calibrations in the Theory of Minimal Surfaces LÊ HÔNG VÂN	133
Minimal Cones Invariant under Adjoint Actions of Compact Lie Groups I. S. NOVIKOVA	173
Global Properties of Minimal Surfaces in $\mathbb{R}^3$ and $\mathbb{H}^3$ and Their Morse Type Indices A. A. TUZHILIN	193
Calibration Forms and New Examples of Globally Minimal Surfaces A. O. IVANOV	235
Ruled Special Lagrangian Surfaces A. BORISENKO	269
Functional-Topological Properties of the Plateau Operator and Applications to the Study of Bifurcations in Problems of Geometry and Hydrodynamics A. YU. BORISOVICH	287
Harmonic Maps into Lie Groups and the Multivalued Novikov Functional A. V. TYRIN	331