CONTENTS

Preface

17.

Research Problems

Bibliography

Index

1.	Global Analysis of the Morse-Smale Index for a Minimal Immersion In 1R ⁿ	6
2.	An Integral Óperator Method and some Remarks for Equa- tions of Mixed Type	52
3.	An Example of Variational Calculus in Mechanics-Durand's Approach	61
4.	The Stability of Minimal Surfaces in ${\mathbb R}^n$	6 8
5.	The Stability of Minimal Surfaces in ${\sf S}^3$	71
6.	The Isoperimetric Problem	74
7.	Eigenvalues of the Laplacian	83
8.	Some more Geometric Inequalities	99
9.	On a Problem of E.Calabi for Minimal Surfaces in ${ m IR}^3$	106
10.	A Contour in ${ m I\!R}^3$ Bounding a Continuum of Minimal Mani-folds	109
11.	Uniqueness Theorems for Minimal Surfaces	112
12.	On the Minimal Surface Equation	118
13.	On the Classification of Complete Minimal Surfaces	124
14.	Morse Theory and Plateau's Problem	130
15.	Some Critical Point Theorems and their Applications	163
16.	Fréchet Numbers and Morse Inequalities in Global Va- riational Analysis	184

192

203

216