

## TABLE OF CONTENTS

Preface		v
<b>I. Supermanifolds</b>		
Yu. I. Manin & I. B. Penkov	The Formalism of Left and Right Connections on Supermanifolds	3
D. A. Leites & V. V. Minachin	New Lie Superalgebras and Mechanics—Some of the Unmissed Opportunities of the Supermanifold Theory	14
E. Sokatchev	$N = 1$ Supergravity from a Geometrical Point of View	18
<b>II. Differential Geometric Methods</b>		
A. Uhlmann	On the Use of Associative Algebras in Differential Geometry	29
A. N. Todorov	Spinors and Moduli of Einstein Metrics on Kähler Simply Connected Manifolds with a Canonical Class $K \equiv 0$	39
J. Loeffelholz	Currents on the Torus	44
A. A. Slavnov	Singlet Variables in Yang-Mills Theory and Matrix Models	52
<b>III. Conformal Groups</b>		
V. B. Petkova, G. M. Sotkov & I. T. Todorov	Local Field Representations of the Conformal Group and their Physical Interpretation	63
N. Karchev & I. T. Todorov	Conformal Composite Fields and Operator Product Expansions	93