

TABLE OF CONTENTS

1.	Classical Yang-Mills Theory	1
2.	Path Integral Quantization of Gauge Theories	33
3.	Background Field Methods	47
4.	Instantons and θ -Vacua	72
5.	Schwinger Model (QED) ₂	107
6.	Chiral Anomaly in (QCD) ₂	136
7.	Fujikawa's Path Integral Method	151
8.	Chiral Anomaly in the Schwinger-Symanzik Formalism	158
9.	Anomalous Ward Identities à la Wess-Zumino	164
10.	Topological Aspects of the Wess-Zumino Effective Action	193
11.	Topological Baryon Number and the Skyrme Model	205
12.	The Atiyah-Singer Index Theorem (for the Euclidean Dirac Operator) ..	219
13.	Chiral Anomalies and Differential Geometry	227
14.	Effective Gauge Theory Actions in (2n+1) Dimensions	251
15.	Chiral Anomaly with Gravitational Background Field	292
16.	Vacuum Charge in 2n+1 Dimensions	309