

# CONTENTS

Foreword	v
On the Combinatorics of Vassiliev Invariants <i>J. S. Birman</i>	1
Solvable Models, Link Invariants and Their Applications to Physics <i>T. Deguchi, M. Wadati</i>	20
The Yang-Baxter Symmetry in Field Theory <i>H. J. De Vega</i>	70
Quantum Symmetry in Conformal Field Theory by Hamiltonian Methods <i>L. D. Faddeev</i>	108
Yang-Baxterization and Algebraic Structures <i>M. L. Ge, K. Xue, Y. S. Wu</i>	130
Introduction to the Yang-Baxter Equation <i>M. Jimbo</i>	153
Notes on Subfactors and Statistical Mechanics <i>V. F. R. Jones</i>	177
Polynomial Invariants in Knot Theory <i>L. H. Kauffman</i>	202
Spin Networks, Topology and Discrete Physics <i>L. H. Kauffman</i>	234
Tunnel Numbers of Knots and Jones–Witten Invariants <i>T. Kohno</i>	275
Symmetry Approach to Solvable Lattice Models <i>T. Miwa</i>	294

<b>Algebras of Loops on Surfaces, Algebras of Knots, and Quantization</b>	<b>324</b>
<i>V. G. Turaev</i>	
<b>Quantum Field Theory and the Jones Polynomial</b>	<b>361</b>
<i>E. Witten</i>	
<b>Knot Invariants and Statistical Mechanics: A Physicist's Perspective</b>	<b>452</b>
<i>F. Y. Wu</i>	