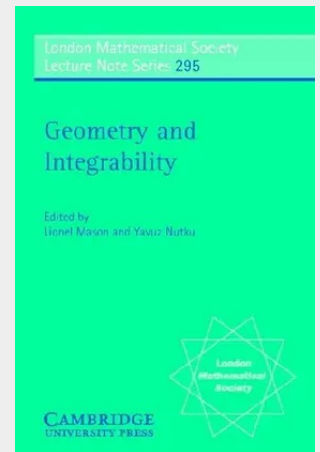


Geometry and Integrability

Most integrable systems owe their origin to problems in geometry and they are best understood in a geometrical context. This is especially true today when the heroic days of KdV-type integrability are over. Problems that can be solved using the inverse scattering transformation have reached the point of diminishing returns. Two major techniques have emerged for dealing with multi-dimensional integrable systems: twistor theory and the d-bar method, both of which form the subject of this book. It is intended to be an introduction, though by no means an elementary one, to current research on integrable systems in the framework of differential geometry and algebraic geometry. This book arose from a seminar, held at the Feza Gursey Institute, to introduce advanced graduate students to this area of research. The articles are all written by leading researchers and are designed to introduce the reader to contemporary research topics.

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89,90 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780521529990

Medium: Buch

ISBN: 978-0-521-52999-0

Verlag: Cambridge University Press

Erscheinungstermin: 20.11.2003

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2003

Serie: London Mathematical Society
Lecture Note Series

Produktform: Kartoniert

Gewicht: 251 g

Seiten: 166

Format (B x H): 152 x 229 mm

