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Twistor description in terms of
twistors involves
algebraic and
differential geometry,
algebraic ...

Twistor Geometry and Field Theory

The book will provide
graduate students with
an introduction to the
literature of twistor
theory, presupposing
some knowledge of

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Deals with the twistor
treatment of certain
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equations. The
description in terms of
twistors involves
algebraic and

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differential geometry,
and several complex
variables.

Proceedings from a
conference on geometry
and partial differential
equations.

The Nordic Summer
School 1985 presented
to young researchers the
mathematical aspects of
the ongoing research

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stemming from the study of field theories in physics and the differential geometry of fibre bundles in mathematics. The volume includes papers, often with original lines of attack, on twistor methods for harmonic maps, the differential geometric aspects of Yang-Mills theory, complex differential

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geometry, metric differential geometry and partial differential equations in differential geometry. Most of the papers are of lasting value and provide a good introduction to their subject.

In this monograph on twistor theory and its applications to harmonic map theory, a central

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twistor is the interplay between the complex homogeneous geometry of flag manifolds and the real homogeneous geometry of symmetric spaces. In particular, flag manifolds are shown to arise as twistor spaces of Riemannian symmetric spaces. Applications of this theory include a complete classification

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of stable harmonic
2-spheres in
Riemannian symmetric
spaces and a Bäcklund
transform for harmonic
2-spheres in Lie groups
which, in many cases,
provides a factorisation
theorem for such
spheres as well as gap
phenomena. The main
methods used are those
of homogeneous
geometry and Lie theory

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together with some algebraic geometry of Riemann surfaces. The work addresses differential geometers, especially those with interests in minimal surfaces and homogeneous manifolds.

Evolving from graduate lectures given in London and Oxford, this

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introduction to twistor theory and modern geometrical approaches to space-time structure will provide graduate students with the basics of twistor theory, presupposing some knowledge of special relativity and differential geometry.

A concise and accessible introduction

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to the wide range of
topics in geometric
approaches to
differential equations.

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Although twistor theory
originated as an
approach to the
unification of quantum
theory and general
relativity, twistor
correspondences and
their generalizations
have provided powerful

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Twistor mathematical tools for studying problems in differential geometry, nonlinear equations, and representation theory.

At the same time, the theory continues to offer promising new insights into the nature of

quantum theory and gravitation. Further

Advances in Twistor Theory, Volume III:

Curved Twistor Spaces

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is actually the fourth in a series of books compiling articles from Twistor Newsletter-a somewhat informal journal published periodically by the Oxford research group of Roger Penrose.

Motivated both by questions in differential geometry and by the quest to find a twistor correspondence for

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general Ricci-flat space times, this volume explores deformed twistor spaces and their applications. Articles from the world's leading researchers in this field—including Roger Penrose—have been written in an informal, easy-to-read style and arranged in four chapters, each supplemented by a detailed introduction.

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Collectively, they trace the development of the twistor programme over the last 20 years and provide an overview of its recent advances and current status.

In the study of integrable systems, two different approaches in particular have attracted

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considerable attention during the past twenty years. (1) The inverse scattering transform (IST), using complex function theory, which has been employed to solve many physically significant equations, the 'soliton' equations. (2) Twistor theory, using differential geometry, which has been used to solve the

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self-dual Yang--Mills (SDYM) equations, a four-dimensional system having important applications in mathematical physics. Both soliton and the SDYM equations have rich algebraic structures which have been extensively studied. Recently, it has been conjectured that, in some sense, all soliton

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Equations arise as special cases of the SDYM equations; subsequently many have been discovered as either exact or asymptotic reductions of the SDYM equations.

Consequently what seems to be emerging is that a natural, physically significant system such as the SDYM equations provides the basis for a

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Twistor unifying framework underlying this class of integrable systems, i.e. 'soliton' systems. This book contains several articles on the reduction of the SDYM equations to soliton equations and the relationship between the IST and twistor methods. The majority of nonlinear evolution equations are nonintegrable, and so

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asymptotic, numerical
perturbation and
reduction techniques are
often used to study such
equations. This book
also contains articles on
perturbed soliton
equations. Painlevé
analysis of partial
differential equations,
studies of the Painlevé
equations and symmetry
reductions of nonlinear
partial differential

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Differential And Equations.

(ABSTRACT) In the study of integrable systems, two different approaches in particular have attracted considerable attention during the past twenty years; the inverse scattering transform (IST), for 'soliton' equations and twistor theory, for the self-dual Yang--Mills (SDYM)

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Equations. This book contains several articles on the reduction of the SDYM equations to soliton equations and the relationship between the IST and twistor methods. Additionally, it contains articles on perturbed soliton equations, Painlevé analysis of partial differential equations, studies of the Painlevé

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equations and symmetry
reductions of nonlinear
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Comprehensive
coverage of the
foundations,
applications, recent
developments, and
future of conformal
differential geometry
Conformal Differential
Geometry and Its

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Generalizations is the first and only text that systematically presents the foundations and manifestations of conformal differential geometry. It offers the first unified presentation of the subject, which was established more than a century ago. The text is divided into seven chapters, each containing figures,

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formulas, and historical and bibliographical notes, while numerous examples elucidate the necessary theory. Clear, focused, and expertly synthesized, Conformal Differential Geometry and Its Generalizations

* Develops the theory of hypersurfaces and submanifolds of any dimension of conformal and pseudoconformal

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spaces. * Investigates conformal and pseudoconformal structures on a manifold of arbitrary dimension, derives their structure equations, and explores their tensor of conformal curvature. * Analyzes the real theory of four-dimensional conformal structures of all possible signatures. * Considers the analytic

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and differential geometry of Grassmann and almost Grassmann structures. * Draws connections between almost Grassmann structures and web theory. Conformal differential geometry, a part of classical differential geometry, was founded at the turn of the century and gave rise to the study of

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conformal and almost
Grassmann structures in
later years. Until now,
no book has offered a
systematic presentation
of the multidimensional
conformal differential
geometry and the
conformal and almost
Grassmann structures.
After years of intense
research at their
respective universities
and at the Soviet School

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Geometry, Maks A. Akivis and Vladislav V. Goldberg have written this well-conceived, expertly executed volume to fill a void in the literature. Dr. Akivis and Dr. Goldberg supply a deep foundation, applications, numerous examples, and recent developments in the field. Many of the

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findings that fill these pages are published here for the first time, and previously published results are reexamined in a unified context. The geometry and theory of conformal and pseudoconformal spaces of arbitrary dimension, as well as the theory of Grassmann and almost Grassmann structures, are discussed and

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analyzed in detail. The topics covered not only advance the subject itself, but pose

important questions for future investigations.

This exhaustive, groundbreaking text combines the classical results and recent developments and findings. This volume is intended for graduate students and researchers

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of differential geometry.
It can be especially
useful to those students
and researchers who are
interested in conformal
and Grassmann
differential geometry
and their applications to
theoretical physics.

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