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Sinopsis

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First book about Poisson structures giving a comprehensive introduction as well as solid foundations to the theory

Unique structure of the volume tailored to graduate students or advanced researchers

Provides examples and exercises?

Poisson structures appear in a large variety of contexts, ranging from string theory, classical/quantum mechanics and differential geometry to abstract algebra, algebraic geometry and representation theory. In each one of these contexts, it turns out that the Poisson structure is not a theoretical artifact, but a key element which, unsolicited, comes along with the problem that is investigated, and its delicate properties are decisive for the solution to the problem in nearly all cases. Poisson Structures is the first book that offers a comprehensive introduction to the theory, as well as an overview of the different aspects of Poisson structures. The first part covers solid foundations, the central part consists of a detailed exposition of the different known types of Poisson structures and of the (usually mathematical) contexts in which they appear, and the final part is devoted to the two main applications of Poisson structures (integrable systems and deformation quantization).

The clear structure of the book makes it adequate for readers who come across Poisson structures in their research or for graduate students or advanced researchers who are interested in an introduction to the many facets and applications of Poisson structures.?

Content Level » Research

Keywords » 17B63, 53D17, 17B80, 53D55, 17B62 - Poisson Algebras - Poisson geometry - Poisson structures - deformation quantization - integrable systems

Related subjects » Algebra - Analysis - Geometry & Topology