

Equivalence, Invariants and Symmetry

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Drawing on a wide range of mathematical disciplines, including geometry, analysis, applied mathematics and algebra, this book presents an innovative synthesis of methods used to study problems of equivalence and symmetry which arise in a variety of mathematical fields and physical applications. Systematic and constructive methods for solving equivalence problems and calculating symmetries are developed and applied to a wide variety of mathematical systems, including differential equations, variational problems, manifolds, Riemannian metrics, polynomials and differential operators. Particular emphasis is given to the construction and classification of invariants, and to the reductions of complicated objects to simple canonical forms. This book will be a valuable resource for students and researchers in geometry, analysis, algebra, mathematical physics and other related fields.

作者介绍:

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标签

数学

Math

李群

李代数

专业需要

Symmetry

评论

cartan
等价问题（判定几何结构的在一个微分同胚条件下等价）这就是陈省身开始研究几何的出发点和基本工具。等价问题（同胚）退化到不变量，而不变量形式可以得到对称对象（自同构）

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书评

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