第一图书网, tushu007.com

<<经典可积系统导论>>

图书基本信息

书名：<<经典可积系统导论>>

13位ISBN编号：9787510004575

10位ISBN编号：7510004578

出版时间：2009-5

出版时间：世界图书出版公司

作者：贝博龙

页数：602

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：http://www.tushu007.com

第一图书网, tushu007.com

<<经典可积系统导论>>

内容概要

、

第一图书网, tushu007.com

作者简介

作者：(法国) 贝博龙 (Babelon.O)

第一图书网, tushu007.com

<<经典可积系统导论>>

书籍目录

1 Introduction2 Integrable dynamical systems 2.1 Introduction 2.2 The Liouville theorem 2.3 Action-angle variables 2.4 Lax pairs 2.5 Existence of an r-matrix 2.6 Commuting flows 2.7 The Kepler problem 2.8 The Euler top 2.9 The Lagrange top 2.10 The Kowalevski top 2.11 The Neumann model 2.12 Geodesics on an ellipsoid 2.13 Separation of variables in the Neumann model3 Synopsis of integrable systems 3.1 Examples of Lax pairs with spectral parameter 3.2 The Zakharov-Shabat construction 3.3 Coadjoint orbits and Hamiltonian formalism 3.4 Elementary flows and wave function 3.5 Factorization problem 3.6 Tau.functions 3.7 Integrable field theories and monodromy matrix 3.8 Abelianization 3.9 Poisson brackets of the monodromy matrix 3.10 The group of dressing transformations 3.11 Soliton solutions4 Algebraic methods 4.1 The classical and modifiedVIln9-Baxter equations 4.2 Algebraic meaning of the classical Yan9-Baxter equations 4.3 Adler-Kostant-Symes scheme 4.4 Construction of integrable systems 4.5 Solving by factorization 4.6 The open Toda chain 4.7 The r.matrix of the Toda models 4.8 Solution of the open Toda chain 4.9 Toda system and Hamiltonian reduction 4.10 The Lax pair of the Kowalevski top5 Analytical methods 5.1 The spectral curve 5.2 The eigenvector bundle 5.3 The adjoint linear system 5.4 Time evolution 5.5 Theta-functions formulae 5.6 Baker-Akhiezer functions 5.7 Linearization and the factorization problem 5.8 Tau-functions 5.9 Symplectic form 5.10 Separation of variables and the spectral curve 5.11 Action-angle variables 5.12 Riemann surfaces and integrability 5.13 The Kowalevski top 5.14 Infinite-dimensional systems6 The closed T0da chain 6.1 The model 6.2 The spectral curve 6.3 The eigenvectors 6.4 Reconstruction formula 6.5 Symplectic structure 6.6 The Sklyanin approach 6.7 The Poisson brackets 6.8 Reality conditions7 The Calogero-Moser model 7.1 The spin Caloger0-Moser model ……8 Isomonodromic deformations9 Grassmannian and integrable hierarchies10 The KP hierarchy11 The KdV hierarchy12 The Toda field theories13 Classical inverse scattering method14 Symplectic geometry15 Riemann surfaces16 Lie algebrasIndex

第一图书网, tushu007.com

章节摘录

插图：

第一图书网, tushu007.com

编辑推荐

《经典可积系统导论》由世界图书出版公司出版。

第一图书网, tushu007.com

<<经典可积系统导论>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:http://www.tushu007.com