<<液态物理学导论>>

图书基本信息

书名:<<液态物理学导论>>

13位ISBN编号:9787506265935

10位ISBN编号:7506265931

出版时间:2004-11

出版时间:世界图书出版公司

作者: N.H.MarchM.P.Tosi

页数:431

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

<<液态物理学导论>>

内容概要

本书为英文版。

Some time ago, the authors collaborated on a book entitled "Atomic Dynamics in Liquids", which has subsequently been reprinted by Dover. This book, it is fair to say, was motivated by advanced lecture courses the two authors had presented at a variety of venues, notable among these being the Abdus Salam International Centre for Theoretical Physics in Trieste.

Subsequently, because of our mutual interests in charged fluids, we followed up the above Volume (Dover, 1991) with "Coulomb Liquids". This naturally had a narrower range of coverage: dominantly classical ionic melts and liquid metals, where the valence electrons are fully quantal. ...

<<液态物理学导论>>

书籍目录

Preface1 Qualities Description of Liquid Properties 1.1 Three Phases of Matter:pVT Behaviour of Pure Materials 1.2 Melting and Lindemann's Law 1.3 Molecular Thermal Movements in the Liquid Phase:Brownian 1.4 Qualitative Considerations Continued:Flow Properties of Dense Liquids 1.5 Rigidity of Liquids 1.6 Surface Properties 1.7 Water and Ice Revisited2 Excluded Volume,Free Volume and Hard Sphere Packing 2.1 Excluded Volume and Packing Problems 2.2 Accessible Configuration Space 2.3 Experiments on Random Packing Models 2.4 Origings of Method of Molecular Dynamics 2.5 Free-Volume Approximation 2.6 Free-Volume and Entropically Driven Freezing Transition 2.7 Building on Hard Sphere Equation of State 2.8 Hard-Particle Fluid Equation of State Using Nearest-Neighbour Correlations 2.9 Free Volume Reghbour Correlations 2.10 Hard Particles in Low Dimensions 2.11 Equation of Hard-Body Fluids 2.12 Hard Sphere Fluid in Narrow Cylindrical Pores3 Thermodynamics, Equipartition of Energy and Some Scaling Properties4 Structure, Forces and Thermodynamics5 Diffusion6 Viscostiy7 Heat Transport8 Chemical Short-Range Order: Molten Salts and Some Metal Alloys9 Bonds, Rings and Chains10 Si[ercooling and the Glassy State11 Non-Newtonain Fluids12 Turbulence13 Liquid-Vapour Interface14 Quantum FluidsReferencesIndex

<<液态物理学导论>>

编辑推荐

本书为英文版。

Some time ago, the authors collaborated on a book entitled "Atomic Dynamics in Liquids", which has subsequently been reprinted by Dover. This book, it is fair to say, was motivated by advanced lecture courses the two authors had presented at a variety of venues, notable among these being the Abdus Salam International Centre for Theoretical Physics in Trieste. .Subsequently, because of our mutual interests in charged fluids, we followed up the above Volume (Dover, 1991) with "Coulomb Liquids". This naturally had a narrower range of coverage: dominantly classical ionic melts and liquid metals, where the valence electrons are fully quantal. ...

<<液态物理学导论>>

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