1. Record Nr. UNISA996466678703316

Titolo	Elementary physics of complex plasmas / / edited by V. N. Tsytovich [and three others]
Pubbl/distr/stampa	Berlin, Germany ; ; New York, New York : , : Springer, , [2008] ©2008
ISBN	3-642-06703-4 3-540-29003-6
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (XIV, 370 p. 129 illus., 2 illus. in color.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 731
Disciplina	530.446
Soggetti	Dusty plasmas
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Complex Plasma — Why It Is an Unusual State of Matter? -- 1.1 General Physical Differences Between Complex Plasma and Ordinary Matter -- 1.2 General Terminology in Complex Plasma and Ordinary Matter -- 1.3 History: Complex Plasmas in Space Physics -- 1.4 Problems of Strong Coupling in Plasmas -- 1.5 Openness of Complex Plasma Systems and Long-range Collective Interactions -- 1.6 Plasma Condensation -- 1.7 Special Aspects of Complex Plasma Investigations -- 1.8 Structures and Self-organization in Complex Plasmas -- 1.9 Outlook of the Subsequent Presentation -- References -- 2 Why Complex Plasmas Have Many Applications in Future Technology? -- 2.1 Main Discoveries in Applications of Complex Plasmas -- 2.2 Computer Technology -- 2.3 First Steps to Using Complex Plasma Properties in Computer Industry -- 2.4 New Surfaces, New Materials -- 2.5 New Energy Production -- 2.6 Environmental Problems -- References -- 3 Elementary Processes in Complex Plasmas -- 3.1 Screening of Grain Field in a Plasma -- 3.2 Charging of Grains in Partially Ionized Plasma -- 3.3 Forces Acting on Ions -- 3.4 Forces Acting on Grains -- 3.5 Forces Acting on Electrons: Characteristic Electric Fields -- References -- 4 Collective Effects in Complex Plasmas -- 4.1 Collective Linear Modes -- 4.2 Universal Instability of a Complex Plasma -- 4.3 Collective Modes Excited by Fast Particles -- 4.4 Observations of Collective Modes -- 4.5 Problems to be Solved for Collective Modes --

4.6 Fluctuations, Collective Pair Interactions, and Pair Correlation Functions -- References -- 5 Micro-particle Collective and Non-collective Pair Interactions -- 5.1 General Properties of Micro-particle Pair Interactions -- 5.2 Shadow Non-collective Attraction Forces -- 5.3 Collective Attraction for Linear Screening -- 5.4 Collective Interactions for Non-linear Screening -- 5.5 Measurements of Screened Potential in Grain-grain Collisions -- References -- 6 Experiments on Plasma Crystals and Long-range Correlations -- 6.1 Plasma Crystals -- 6.2 Melting and Phase Transitions -- 6.3 Paradigms for Plasma Crystal Formation -- 6.4 Inspiration from Experiments -- References -- 7 Mono-layer Plasma Crystals and Clusters -- 7.1 Mono-layer Plasma Crystals -- 7.2 2D Plasma Clusters -- References -- 8 Comments on Other Dust Structures: Concluding Remarks -- 8.1 Dust Helical Clusters -- 8.2 Disordered Grain Structures -- 8.3 Dust Wall Sheaths -- 8.4 Dust Structures between Walls -- 8.5 Dust Convection in Structures -- 8.6 Hybrid Dust Structures -- 8.7 Micro-gravity Experiments -- 8.8 Future Research: Outlook for Complex Plasmas -- 8.9 Conclusion -- References.

Sommario/riassunto

Complex plasmas are dusty plasmas in which the density and electric charges of the dust grains are sufficiently high to induce long-range grain-grain interactions, as well as strong absorption of charged-plasma components. Together with the sources replenishing the plasma such systems form a highly dissipative thermodynamically open system that exhibits many features of collective behaviour generally found in complex systems. Most notably among them are self-organized patterns such as plasma crystals, plasma clusters, dust stars and further spectacular new structures. Beyond their intrinsic scientific interest, the study of complex plasmas grows in importance in a great variety of fields, ranging from space-plasma sciences to applied fields such as plasma processing, thin-film deposition and even the production of computer chips by plasma etching, in which strongly interacting clouds of complex plasmas can cause major contamination of the final product. Intended as first introductory but comprehensive survey of this rapidly emerging field, the present book addresses postgraduate students as well as specialist and nonspecialist researchers with a general background in either plasma physics, space sciences or the physics of complex systems.

2. Record Nr. UNINA9910778794603321

Titolo	Indoor allergens [[electronic resource]] : assessing and controlling adverse health effects / / Andrew M. Pope, Roy Patterson, and Harriet Burge, editors ; Committee on the Health Effects of Indoor Allergens, Division of Health Promotion and Disease Prevention, Institute of Medicine
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1993
ISBN	1-280-19639-4 9786610196395 0-309-58514-7 0-585-02260-7
Descrizione fisica	1 online resource (320 p.)
Altri autori (Persone)	PopeAndrew MacPherson <1950-> PattersonRoy <1926-2002.> BurgeHarriet
Disciplina	616.2/02
Soggetti	Respiratory allergy Indoor air pollution Allergens
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Indoor Allergens""; ""Copyright""; ""Preface""; ""Acknowledgments""; ""Contents""; ""Executive Summary""; ""INTRODUCTION""; ""The Allergic Reaction""; ""MAGNITUDE OF THE PROBLEM""; ""AGENTS, SOURCES, AND SOURCE CONTROLS""; ""MECHANISMS OF IMMUNE FUNCTION""; ""MEDICAL TESTING METHODS""; ""Medical History""; ""Skin Tests""; ""In Vitro Tests""; ""Pulmonary Function Tests""; ""ASSESSING EXPOSURE AND RISK""; ""ENGINEERING CONTROL STRATEGIES""; ""THE ROLE OF EDUCATION""; ""RECOMMENDATIONS AND RESEARCH AGENDA""; ""Recommendations""; ""AGENTS, SOURCES, SOURCE CONTROLS, AND DISEASES"" ""Dust Mite, Cockroach, and Other Arthropoda""""""MEDICAL TESTING METHODS""; ""Skin Tests""; ""Pulmonary Function Tests""; ""ASSESSING EXPOSURE AND RISK""; ""ENGINEERING CONTROL STRATEGIES""; ""THE

ROLE OF EDUCATION""; ""Patients""; ""Health Care Providers""; ""Engineers, Architects, and Building Maintenance Personnel""; ""Research Agenda""; ""MAGNITUDE AND DIMENSIONS OF SENSITIZATION AND DISEASE""; ""AGENTS, SOURCES, SOURCE CONTROLS, AND DISEASES""; ""Dust Mite, Cockroach, and Other Arthropoda""; ""Mammals and Birds""; ""Microbial Allergens""; ""Chemicals""; ""PLANTS AND PLANT PRODUCTS""
""MECHANISMS OF IMMUNE FUNCTION""""MEDICAL TESTING METHODS""; ""Medical History and Diagnosis""; ""Skin Tests""; ""In Vitro Tests""; ""Pulmonary Function""; ""ASSESSING EXPOSURE AND RISK""; ""ENGINEERING CONTROL STRATEGIES""; ""1 Introduction""; ""ALLERGENS AND THE INDOOR ENVIRONMENT""; ""CONCEPTS AND DEFINITIONS""; ""SCOPE AND ORGANIZATION OF THE REPORT""; ""2 Magnitude and Dimensions of Sensitization and Disease Caused by Indoor Allergens""; ""IMMUNOLOGIC SENSITIZATION""; ""Risk Factors""; ""Other Types of Sensitization""; ""DISEASES""
""Common Diseases Clearly Related to Allergy and IgE Antibody""""" ALLERGIC ASTHMA""; ""Definition and Diagnosis""; ""Attributable Fraction""; ""Prevalence""; ""Incidence""; ""Impact""; ""Trends Over Time""; ""Risk factors""; ""Demographics""; ""ALLERGIC RHINITIS""; ""Prevalence and Incidence""; ""Risk Factors""; ""ECZEMA""; ""Atopic Dermatitis""; ""Allergic Contact Dermatitis""; ""Less Common Diseases Clearly Related to Allergy""; ""ALLERGIC BRONCHOPULMONARY ASPERGILLOSIS""; ""Prevalence""; ""HYPERSENSITIVITY PNEUMONITIS""; ""Prevalence""; ""Disease Severity""; ""Risk Factors""
""HUMIDIFIER FEVER""""Prevalence""; ""Common Diseases Possibly Related to Allergy""; ""SINUSITIS""; ""Prevalence and Severity""; ""Risk Factors""; ""CHRONIC BRONCHITIS""; ""SICK BUILDING SYNDROME""; ""SPECIFIC BUILDING-RELATED ILLNESS""; ""ACUTE RESPIRATORY ILLNESSES""; ""CONCLUSIONS AND RECOMMENDATIONS""; ""3 Agents, Sources, Source Controls, and Diseases""; ""DUST MITE, COCKROACH, AND OTHER ARTHROPODA""; ""Dust Mites as a Source of Indoor Allergens""; ""DUST MITE ALLERGENS""; ""COMMERCIALLY AVAILABLE ALLERGEN EXTRACTS""; ""Insects as a Source of Indoor Allergens""; ""DOMESTIC COCKROACHES""
""Measuring Exposure to House Dust Allergens""

3. Record Nr. UNINA9910137201203321

Titolo	Music therapy perspectives
Pubbl/distr/stampa	Washington, DC, : National Association for Music Therapy, [©1982]-
ISSN	2053-7387
Descrizione fisica	1 online resource
Disciplina	615.8/5154/05
Soggetti	Music therapy Music Therapy Periodical Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Title from cover. Some issues accompanied by CD-ROMs.