

1. Record Nr.	UNINA9910456963503321
Titolo	Low-gravity fluid dynamics and transport phenomena [[electronic resource] /] / edited by Jean N. Koster and Robert L. Sani
Pubbl/distr/stampa	Washington, D.C., : American Institute of Aeronautics and Astronautics, c1990
ISBN	1-60086-603-4 1-60086-384-1
Descrizione fisica	1 online resource (763 p.)
Collana	Progress in astronautics and aeronautics ; ; v. 130
Altri autori (Persone)	KosterJean N SaniRobert L
Disciplina	629.1 s 629.132/3
Soggetti	Fluid mechanics Liquids - Effect of reduced gravity on Capillarity Electronic books.
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	""Cover""; ""Title""; ""Copyright""; ""Table of Contents""; ""Preface""; ""Chapter 1. Applied Fluid Mechanics and Thermodynamics""; ""Fluid Management in Low Gravity""; ""Introduction""; ""Stability Considerations""; ""Surface Tension Systems""; ""Design Principles for Fine Mesh-Screen Capillary Devices""; ""Considerations for PMDs Used with Cryogenic Liquids""; ""Conclusions""; ""References""; ""Nucleate Pool Boiling in Variable Gravity""; ""Introduction""; ""Basic Mechanisms of Nucleate Pool Boiling""; ""Status of Understanding""; ""Experimental Technique""; ""Experimental Results"" ""References""""Chapter 2. Transport Phenomena in Crystal Growth""; ""Application of Energy-Stability Theory to Problems in Crystal Growth""; ""Introduction""; ""Stability Theory""; ""Model Half-Zone""; ""References""; ""Bridgman Crystal Growth in Low Gravity: A Scaling Analysis""; ""Nomenclature""; ""Introduction""; ""Previous Work Related to Transport in Bridgman-Type Systems""; ""Numerical Analysis of Crystal Growth Under Low-Gravity Conditions""; ""Order-of-Magnitude

Analysis and Discussion"; "Conclusions"; "References"  
"Steady-State Thermal-Solutal Convection and Diffusion in a Simulated  
Float Zone" "Nomenclature"; "Introduction"; "Model Formulation";  
"Scaling"; "Asymptotic Analysis"; "Results"; "Summary and  
Conclusions"; "References"; "Thermosolutal Convection in Liquid  
HgCdTe Near the Liquidus Temperature"; "Introduction"; "The  
Model"; "Results and Discussion"; "Conclusions"; "References";  
"Transport Phenomena During Vapor Growth of Optoelectronic  
Material: A Mercurous Chloride System"; "Introduction";  
"Experimental Methods"; "Results and Discussion"; "Summary"  
"Liquid-Liquid Interface" "Nonlinear Capillary-Gravity Oscillations";  
"Solitons Excited by the Marangoni Effect"; "References"; "Chapter 4.  
Gravity Modulation Effects"; "Gravity Jitters: Effects on Typical Fluid  
Science Experiments"; "Introduction"; "Reference Scenario for the  
Microgravity Environment"; "Equivalence Criteria and Tolerability  
Limits"; "Study Cases"; "Results of the Fluid Dynamic Modelings";  
"Conclusions"; "References"; "Effect of Gravity Jitter on Natural  
Convection in a Vertical Cylinder"; "Introduction"; "Presentation of  
the Problem"  
"Governing Equations"

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2. Record Nr.	UNISA996335774603316
Titolo	Coal age
Pubbl/distr/stampa	Overland Park, Kan., : Intertec Pub. Corp., 1996- Englewood CO, : Lobos Services, Inc Englewood CO, : Mining Media Inc
ISSN	1090-0646
Descrizione fisica	1 online resource
Disciplina	622/.334
Soggetti	Coal mines and mining Coal mines and mining - United States Coal preparation Periodicals. United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Title from cover.