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Autore	Bevans Jerry T
Titolo	Thermophysics : Applications to Thermal Design of Spacecraft
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Edizione	[1st ed.]
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Collana	Progress in astronautics and aeronautics Thermophysics
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Soggetti	Materials -- Thermal properties -- Congresses Space vehicles -- Thermodynamics -- Congresses Space vehicles - Thermodynamics - Congresses Materials - Thermal properties Mechanical Engineering Engineering & Applied Sciences Aeronautics Engineering & Astronautics
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Nota di contenuto	<p>""Cover ""; ""Title ""; ""Copyright ""; ""Preface ""; ""The Thermophysics Committee of the American Institute of Aeronautics and Astronautics""; ""Editorial Committee for Volume 23""; ""Table of Contents ""; ""I. Experimental Thermophysical Properties""; ""Conduction""; ""Thermal Isolation with Low-Conductance Interstitial Materials under Compressive Loads ""; ""Thermal Contact Resistance Measurements at Ambient Pressures of One Atmosphere to <math>3 \times 10 \sim 12</math> mm Hg and Comparison with Theoretical Predictions ""</p> <p>""Column Method of Measuring Thermal Conductivity of Gases: Results on Carbon Monoxide and Oxygen """"Radiation""; ""Portable Reflectometer""; ""Investigation of a Model for Bidirectional Reflectance of Rough Surfaces""; ""Solar Absorptance and Hemispherical Emittance of Various Metals at Space Conditions""; ""Combined Radiation, Convection, and/or Conduction""; ""A Study of Heat-Transfer Processes in Multilayer Insulations""; ""Opacified Fibrous Insulations""; ""Techniques for Improving the Thermal Performance of Low-Density Fibrous Insulation""; ""Phase Change""</p>

""Microscopic Observation of Interfacial Phenomena """"Space Environmental Effects upon Radiation Properties""; ""Radiation-Induced Absorption Bands in Spacecraft Thermal Control Coating Pigments ""; ""Electron Energy Dependence for In-Vacuum Degradation and Recovery in Thermal Control Surfaces ""; ""Results from the ATS-3 Reflectometer Experiment ""; ""II. Analytical Predictions Of Thermophysical Properties""; ""Radiation from a Bounded Medium""; ""Distribution of Solar Energy Reflected from Earth by a Scattering Atmosphere ""

""Radiative Equilibrium of a Gray Medium Bounded by Nonisothermal Walls """"Directional Emittance from Emitting, Absorbing, and Scattering Media ""; ""Surface Radiation Properties""; ""Apparent Radiation Properties of a Rough Surface ""; ""Effect of Thin Surface Films on the Radiative Properties of Metal Surfaces ""; ""III. Thermal Design Of Spacecraft Systems""; ""Thermal Design Techniques""; ""Distributed Parameter Space Radiator Dynamic Analysis ""; ""An ATS-E Solar Cell Space Radiator Utilizing Heat Pipes ""; ""Two-Component Heat Pipes ""

""Scale Modeling of a Multilayer Insulated Spacecraft for Use in a Preliminary Design Study """"Parametric Thermal Control Requirements for Future Manned Spacecraft ""; ""Planetary Landers""; ""Thermal Considerations of a Landed Vehicle on the Surface of Mars ""; ""Mars Lander Thermal Control System Parametric Studies ""; ""Thermal Design, Analysis, and Testing of a Full-Size Planetary Lander Model ""; ""Index of Contributors ""

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#### Sommario/riassunto

This book indicates some of the most important directions that thermophysics will be taking in the next ten years. In particular, it focuses on the development of more efficient, more durable thermal designs and materials for longer and more expensive space flights. Some of the topics the book discusses are: comparison of contact thermal resistance theory and experiments, the combination of optics and engineering in thermophysics, super-insulation crystal growth during melting and freezing, physical parameters affecting radiation property degradation, under simulated space conditions, radiation from a gaseous medium, theoretical predictions of surface effects upon radiative properties, heat pipes, and design of a Mars planetary lander.

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2. Record Nr.	UNINA9910971613303321
Autore	Robinson G. M (Guy M.)
Titolo	Geographies of agriculture : globalisation, restructuring and sustainability // Guy M. Robinson
Pubbl/distr/stampa	London ; , New York : , : Routledge, , 2013
ISBN	1-138-83762-8 1-315-83950-4 1-317-88006-4 1-317-88007-2
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Descrizione fisica	1 online resource (889 p.)
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Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Half Title; Title Page; Copyright Page; Table of Contents; List of figures; List of maps; List of tables; Preface; Acknowledgements; 1. Agricultural systems; 1.1 Introduction; 1.2 The agri-ecosystem; 1.3 Climate and agriculture; 1.3.1 Temperature; 1.3.2 Water; 1.4 Agricultural soils; 1.4.1 Soil classification; 1.5 Energy; 1.6 Climatic change and agriculture; 1.7 Classifying agricultural systems; 1.7.1 Land classification; 1.7.2 Land use classification; 1.7.3 Type-of-farming regions; 1.8 Conclusion; 2. The changing focus of agricultural geography 2.1 'Traditional' agricultural geography 2.2 Behavioural approaches; 2.2.1 Actor networks; 2.3 Political economy approaches; 2.3.1 Critiques of the political economy approach; 2.4 New theories to explain agricultural change; 2.4.1 Food regimes; 2.4.2 Regulation theory; 2.4.3 The agrarian question; 2.5 Conclusion; 3. Globalisation of agricultural production; 3.1 The nature of globalisation; 3.2 Globalisation and agri-food production; 3.3 From productivist to post-productivist agriculture?; 3.3.1 Agricultural restructuring; 3.3.2 Productivism; 3.3.3 Post-productivism and its critique 4. Agri-food networks 4.1 Food retailing and consumption; 4.2 The

corporate retailers; 4.3 The alternative food economy; 4.3.1 The nature of the alternative food economy; 4.3.2 Local connections and identities; 4.4 Conclusion; 5. Government and agriculture in the Developed World; 5.1 The goals of agricultural policy; 5.2 The Common Agricultural Policy of the European Union; 5.2.1 Overview; 5.2.2 Increased production; 5.2.3 Environmental disbenefits; 5.3 Reforming the Common Agricultural Policy; 5.3.1 The American experience of set-aside  
5.3.2 Regulation 1094/88: voluntary set-aside in the European Union5.3.3 The Arable Area Payments Scheme; 5.3.4 Milk quotas; 5.3.5 Agenda 2000; 5.4 Agriculture and the expansion of the European Union; 5.4.1 Land reforms in the Central and East Europe Countries; 5.4.2 Land reforms in Poland; 5.4.3 Land reforms in Hungary; 5.5 Macro-level change; 5.5.1 Challenges to traditional farmer-state relations; 5.5.2 Coloured boxes and multifunctionality; 5.5.3 Some comparisons with US policy; 6. Specialisation and diversification; 6.1 Specialisation; 6.1.1 Crop production; 6.1.2 Livestock production  
6.2 The survival of family farming6.2.1 The agrarian question revisited; 6.2.2 The decline of the farm workforce; 6.3 Farm diversification and pluriactivity; 6.3.1 Defining farm diversification; 6.3.2 Motives for and impacts of diversification; 6.3.3 The role of women in farm diversification; 6.3.4 Diversification into farm-based tourism and recreation; 6.4 Conclusion; 7. The 'other side' of globalisation: farming in Developing Countries; 7.1 Differential impacts of globalisation; 7.2 The dual economy; 7.3 The 'advancing wave' of commercialisation; 7.3.1 The retreat of subsistence production  
7.3.2 The impacts of colonialism on indigenous farming systems in sub-Saharan Africa

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Sommario/riassunto

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