

1. Record Nr.	UNINA9910781987403321
Autore	Patino Douce Alberto
Titolo	Thermodynamics of the Earth and planets // Alberto Patino Douce [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2011
ISBN	1-107-21948-5 1-283-29564-4 1-139-12221-5 9786613295644 1-139-11647-9 1-139-11211-2 0-511-97485-X 1-139-12713-6 1-139-11430-1
Descrizione fisica	1 online resource (xi, 709 pages) : digital, PDF file(s)
Classificazione	SCI019000
Disciplina	551.5/22
Soggetti	Laws of thermodynamics Planetary theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Energy in planetary processes and the First Law of Thermodynamics -- 2. Energy sources in planetary bodies -- 3. Energy transfer processes in planetary bodies -- 4. The Second Law of Thermodynamics and thermodynamic potentials -- 5. Chemical equilibrium: using composition as a thermodynamic variable -- 6. Phase equilibrium and phase diagrams -- 7. Critical phase transitions -- 8. Equations of state for solids and the internal structure of terrestrial planets -- 9. Thermodynamics of planetary volatiles -- 10. Melting in planetary bodies -- 11. Dilute solutions -- 12. Non-equilibrium thermodynamics and rates of natural processes -- 13. Topics in atmospheric thermodynamics and radiative energy transfer -- 14. Thermodynamics of life.
Sommario/riassunto	This textbook provides an intuitive yet mathematically rigorous

introduction to the thermodynamics and thermal physics of planetary processes. It demonstrates how the workings of planetary bodies can be understood in depth by reducing them to fundamental physics and chemistry. The book is based on two courses taught by the author for many years at the University of Georgia. It includes 'Guided Exercise' boxes; end-of-chapter problems (worked solutions provided online); and software boxes (Maple code provided online). As well as being an ideal textbook on planetary thermodynamics for advanced students in the Earth and planetary sciences, it also provides an innovative and quantitative complement to more traditional courses in geological thermodynamics, petrology, chemical oceanography and planetary science. In addition to its use as a textbook, it is also of great interest to researchers looking for a 'one stop' source of concepts and techniques that they can apply to their research problems.

2. Record Nr.	UNINA9910779929803321
Autore	Connell John <1946, >
Titolo	Urbanisation in the Island Pacific : towards sustainable development // John Connell and John Lea
Pubbl/distr/stampa	London ; ; New York : , : Routledge, , 2002
ISBN	1-134-54071-X 1-134-54072-8 1-280-40330-6 0-203-45307-7 0-203-26273-5
Descrizione fisica	1 online resource (255 p.)
Collana	Routledge pacific rim geographies
Altri autori (Persone)	LeaJohn P
Disciplina	307.76099
Soggetti	Urbanization - Pacific Area Cities and towns - Pacific Area - Growth Sustainable development - Pacific Area
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	""Book Cover""; ""Title""; ""Contents""; ""List of illustrations""; ""List of

tables"; ""Preface"; ""Acknowledgements"; ""Abbreviations"; ""Introduction: an urban Pacific"; ""The context of urbanisation in the Pacific"; ""The colonial heritage"; ""Population growth and migration"; ""Economic development: towards the city?"; ""Urban issues"; ""Managing urbanisation"; ""Land and urban life"; ""Housing and the urban environment"; ""Sustaining Pacific urban society?"; ""Living in town: a sustainable future?"; ""References"; ""Index"

Sommario/riassunto

Managing rapid urban growth presents a significant challenge in the small independent countries of the Pacific Islands. Although they originated in colonial times, the towns and cities are now distinctively post-colonial, with economies, environments and social structures that reflect unique island characteristics. This transformation has stimulated new concerns, such as the causes and effects of pollution, the need for employment for landless migrants, the need for adequate and affordable housing and the financing of expanding urban services. This book explores the diversity of the urban exper
