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| 1. Record Nr. | UNINA9910704099503321 |
| Autore | Allen J. H (Joe Haskell) |
| Titolo | Auroral electrojet magnetic activity indices AE (11) for 1969 // by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris |
| Pubbl/distr/stampa | Asheville, N.C. : , : U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data Service, , 1974 |
| Descrizione fisica | 1 online resource (ii, 141 pages) : illustrations |
| Collana | World Data Center A for Solar-Terrestrial Physics. Report UAG ; ; 31 |
| Soggetti | Electromagnetism Auroras Charts, diagrams, etc. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Tables. "February 1974." Title from title screen (viewed September 24, 2015). |

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| 2. Record Nr. | UNINA9910139248903321 |
| Autore | Querlioz Damien |
| Titolo | The Wigner Monte-Carlo method for nanoelectronic devices : a particle description of quantum transport and decoherence // Damien Querlioz, Philippe Dollfus |
| Pubbl/distr/stampa | London, : ISTE Hoboken, N.J., : Wiley, 2010 |
| ISBN | 9781118618479 1118618475 9781118618448 1118618440 9781299315303 1299315305 9781118618486 1118618483 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (268 p.) |
| Collana | ISTE |
| Altri autori (Persone) | DollfusPhilippe |
| Disciplina | 530.4/10151 |
| Soggetti | Solid state physics - Mathematics Semiconductors Transport theory Coherent states Quantum statistics Particles (Nuclear physics) Nanoelectronics Wigner distribution Monte Carlo method |
| 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 | Theoretical framework of quantum transport in semiconductors and devices -- Particle-based Wigner Monte Carlo approach to device simulation -- Application of the Wigner Monte Carlo technique to RTD, MOSFET, and CNTFET -- Transition from quantum to semi-classical |

transport through decoherence theory.

Sommario/riassunto

This book gives an overview of the quantum transport approaches for nanodevices and focuses on the Wigner formalism. It details the implementation of a particle-based Monte Carlo solution of the Wigner transport equation and how the technique is applied to typical devices exhibiting quantum phenomena, such as the resonant tunnelling diode, the ultra-short silicon MOSFET and the carbon nanotube transistor. In the final part, decoherence theory is used to explain the emergence of the semi-classical transport in nanodevices.

3. Record Nr.

UNINA9910446324203321

Titolo

Rainfed agriculture : unlocking the potential // edited by Suhas P. Wani, Johan Rockstrom, and Theib Oweis

Pubbl/distr/stampa

Wallingford, Oxfordshire, UK ; ; Cambridge, MA, : CABI, c2009

ISBN

1-282-07042-8
9786612070426
1-84593-438-5

Edizione

[1st ed.]

Descrizione fisica

1 online resource (326 p.)

Collana

Comprehensive assessment of water management in agriculture series ;
; 7

Altri autori (Persone)

WaniS. P <1952-> (Suhas Pralhad)
RockstromJohan
OweisTheib Yousef

Disciplina

631.5/86

Soggetti

Dry farming - Asia
Dry farming - Africa
Water in agriculture - Asia
Water in agriculture - Africa
Watershed management - Asia
Watershed management - Africa

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

Contents; Contributors; Series Foreword; Foreword; Preface;

Acknowledgements; 1 Rainfed Agriculture - Past Trends and Future Prospects; 2 Zooming in on the Global Hotspots of Rainfed Agriculture in Water-constrained Environments; 3 Water Resource Implications of Upgrading Rainfed Agriculture - Focus on Green and Blue Water Trade-offs; 4 Tectonics-Climate-linked Natural Soil Degradation and its Impact in Rainfed Agriculture: Indian Experience; 5 Determinants of Crop Growth and Yield in a Changing Climate; 6 Yield Gap Analysis: Modelling of Achievable Yields at Farm Level
7 Can Rainfed Agriculture Feed the World? An Assessment of Potentials and Risk
8 Opportunities for Improving Crop Water Productivity through Genetic Enhancement of Dryland Crops; 9 Water Harvesting for Improved Rainfed Agriculture in the Dry Environments; 10 Supplemental Irrigation for Improved Rainfed Agriculture in WANA Region; 11 Opportunities for Water Harvesting and Supplemental Irrigation for Improving Rainfed Agriculture in Semi-arid Areas; 12 Integrated Farm Management Practices and Upscaling the Impact for Increased Productivity of Rainfed Systems
13 Challenges of Adoption and Adaptation of Land and Water Management Options in Smallholder Agriculture: Synthesis of Lessons and Experiences
14 Scaling-out Community Watershed Management for Multiple Benefits in Rainfed Areas; Index

Sommario/riassunto

Based on the case studies from varied agricultural and ecological regions in Asia and Africa, this book discusses the need for adopting new paradigms between rainfed and irrigated agriculture, catchment/micro-watershed management approaches, upgrades in science-based development and more investments in rainfed areas.
