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| Titolo | Systems Analysis Approach for Complex Global Challenges / / edited by Priscilla Mensah, David Katerere, Sepo Hachigonta, Andreas Roodt |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018 |
| ISBN | 3-319-71486-4 |
| Edizione | [1st ed. 2018.] |
| Descrizione fisica | 1 online resource (xxi, 332 pages) |
| Disciplina | 333.7 |
| Soggetti | Engineering economics |
| | Engineering economy |
| | Physical geography |
| | Climate change |
| | Computer simulation Renewable energy resources |
| | Environmental management |
| | Engineering Economics, Organization, Logistics, Marketing |
| | Earth System Sciences |
| | Climate Change/Climate Change Impacts |
| | Simulation and Modeling |
| | Renewable and Green Energy |
| | Water Policy/Water Governance/Water Management |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Introduction Risk and Governance Energy and Climate Systems Ecosystems, Water and Food Population, Health and Aging. |
| Sommario/riassunto | This book, which contains a collection of review articles as well as focus on evidence-based policy making, will serve as a valuable resource not just for all postgraduate students conducting research using systems analysis thinking but also for policy makers. To our knowledge, a book of this nature which also has a strong African focus is currently not available. The book examines environmental and socio-economic risks with the aim of providing an analytical foundation for the management |

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and governance of natural resources, disasters, addressing climate change, and easing the technological and ecological transitions to sustainability. It provides scientific and strategic analysis to better understand the dynamics of future energy transitions, their main driving forces, enabling factors, barriers, as well as their consequences for the social, economic and environmental dimensions of human wellbeing. Science-based policy advice is achieved through an integrated assessment and modeling of how to simultaneously address the major energy policy challenges in the areas of environment (climate change and air pollution), energy poverty (or access to affordable and clean energy for the poor), energy security and reliability. It also aims to improve our understanding of ecosystems and their management in today's changing world-in particular, the current state of ecosystems, and their ecological thresholds and buffering capacities. It provides support for policy makers in developing rational, realistic and sciencebased regional, national and global strategies for the production of fuel, food and fibre that sustain ecosystem services and safeguard food security. Finally, it addresses the human development dimension of global change based on comprehensive studies on the changing size and composition of human populations around the world by analyzing both their impacts and the differential vulnerabilities by age, gender and level of education.