

Models of high energy processes

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MATHEMATICAL PHYSICS

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Models of High Energy Processes J. C. Polkinghorne, 1980-05-22 This monograph seeks to provide an introduction to high energy model making New Insights into High-Energy Processes on the Sun and Their Geospace Consequences Xiangliang Kong, Jing Liu, Gang Li, 2025-02-21 The Sun releases an enormous amount of energy during explosive solar activities such as solar flares and coronal mass ejections The solar corona can be heated up to tens of millions of degrees and a large number of charged particles can be accelerated to nearly the speed of light Heated plasmas and high energy particles increase solar radiations across the whole electromagnetic spectrum from radio to gamma ray wavelengths which can have a profound effect on the Earth's upper atmosphere immediately after about eight minutes These create additional ionization and heating in the Earth's upper atmosphere leading to radio blackout GNSS signal interferences and tracking loss increased drag on spacecraft etc Recent studies have demonstrated that the effects can extend to the Earth's magnetosphere via electrodynamic coupling When the high energy particles propagate through the interplanetary medium and arrive at the vicinity of the Earth known as solar energetic particle SEP events they can pose hazardous radiation threats to astronauts and spacecraft electronics in space **Mathematical Modeling and Simulation of Systems** Volodymyr Kazymyr, Anatoliy Morozov, Alexander Palagin, Serhiy Shkarlet, Nikolai Stoianov, Dmitri Vinnikov, Mark Zheleznyak, 2024-09-06 Modern complex multi domain systems require increased efficiency reliability and availability combined with reduced cost This book contains papers on mathematical modeling and simulation of processes in various areas in ecology and the environment production and energy information technology samples of special purpose equipment and cyber physical systems The outcomes presented in the book will be useful to specialists involved in the modeling and simulation of real world system management and decision making models production models and software products Scientists have the opportunity to familiarize themselves with the latest research in a variety of solutions proposed by leading scientists and to determine promising directions for solving complex scientific and practical tasks Chapters of this book contain papers presented at the 18th MODS International Conference November 13-15 2023 Chernihiv Ukraine **Nuclear Science Abstracts** , 1976-05 **Modeling of Process Intensification** Frerich J. Keil, 2007-06-27 Combining the knowledge involved in process engineering and process modeling this is the first book to cover all modeling methods applicable to process intensification Both the editors and authors are renowned experts from industry and academia in the various fields of process modeling and integrated chemical processes Following an introduction to the topic the book goes on to look at equipment and operational methods monolithic catalysis HEX micro and reverse flow reactors catalytic and reactive distillation the simulated moving bed and vibration bubble column as well as ultrasound and ultrasonic reactors A final chapter is devoted to processes under supercritical conditions In its treatment of hot topics of multidisciplinary interest this book is of great value to researchers and engineers alike Scientific and Technical Aerospace Reports , 1995 **Computer-Based Modeling of Novel**

Carbon Systems and Their Properties Luciano Colombo, Annalisa Fasolino, 2010-08-05 During the last twenty years the multiplicity of potential carbon structures has consistently posed a formidable challenge to theoretical and computational physicists. Several different methods are currently being used to study the structure and the properties of such systems. These methods include simulations based on empirical potentials, tight binding calculations and density functional theory (DFT). A combination of these methods is needed to make significant progress in the carbon field. This volume provides the reader with a survey of state of the art theoretical and computational contributions featuring novel carbon systems excluding nanotubes. The chapters are authored by leading researchers who are all actively involved with different aspects of carbon structure and property elucidation. Consequently a variety of methods are presented to the reader. The editors have successfully compiled an informative book that showcases the latest results in carbon materials. Demonstrates how different theoretical methods are combined. Explains how new carbon structures are predicted. Computer Based Modeling of Novel Carbon Systems and Their Properties is aimed at advanced undergraduates, graduates and researchers with an interest in computational nanomaterials.

21st European Symposium on Computer Aided Process Engineering E. N. Pistikopoulos, Michael C. Georgiadis, Antonis C. Kokossis, 2011-07-21 The European Symposium on Computer Aided Process Engineering (ESCAPE) series presents the latest innovations and achievements of leading professionals from the industrial and academic communities. The ESCAPE series serves as a forum for engineers, scientists, researchers, managers and students to present and discuss progress being made in the area of computer aided process engineering. CAPE European industries large and small are bringing innovations into our lives whether in the form of new technologies to address environmental problems, new products to make our homes more comfortable and energy efficient or new therapies to improve the health and well being of European citizens. Moreover the European Industry needs to undertake research and technological initiatives in response to humanity's Grand Challenges described in the declaration of Lund namely Global Warming, Tightening Supplies of Energy, Water and Food, Ageing Societies, Public Health, Pandemics and Security. Thus the Technical Theme of ESCAPE 21 will be Process Systems Approaches for Addressing Grand Challenges in Energy, Environment, Health, Bioprocessing, Nanotechnologies.

A Physicist Examines Hope in the Resurrection John F. Wilson, 2016-12-22 John Polkinghorne, ordained member of the Royal Society, past President of Queen's College, Cambridge, Knight Commander of the Order of the British Empire, 2002 Templeton Prize winner, theoretical physicist and theologian, writes in breathless style to unfold core Christian doctrine in dialogue with science. His work deftly addresses how one would interpret and commend Christian faith in the contemporary world as he elucidates the key topics in the dialogue of religion with science. Polkinghorne's work addresses the hope Christians have present and future in the faithfulness of a loving God who stands alongside them today and for all eternity. Eschatological hope enables and empowers Christian life and emerges in God's resurrection of Jesus from the horrific crucifixion. Polkinghorne ably supports his thesis with a strong argument for the resurrection built on the kenotic acts

of God His thesis sees Christian eschatology as the advent of hope the heart of faith In Christian eschatology as argued by Polkinhorne and supported in the work of Jurgen Moltmann and Nicholas T Wright Christ s presence is not some far off event but present reality

Climate Observations Peter Domonkos,Róbert Tóth,László Nyitrai,2022-11-15 Climate Observations Data Quality Control and Time Series Homogenization pulls together the different phases of the production of high quality climatic datasets allowing interested readers to obtain a coherent picture on the complexity and importance of this task There are several new methods of time series homogenization each very complex and fast developing The thematic discussion of the production of high quality climatic datasets provides the opportunity to reduce errors including the careful installation of meteorological instruments the application of strict observing rules and inspections and the use of sophisticatedly developed statistical software to detect and remove errors or biases This book is intended for professionals working on climate data management at the national meteorological services for the users of observed climatic data and for students and researchers studying atmospheric and climate science Members of the Royal Meteorological Society are eligible for a 35% discount on all Developments in Weather and Climate Science series titles See the RMetS member dashboard for the discount code Describes the research tasks and tools for which the reliability and accuracy of climatic data is particularly important Includes case studies to provide real world context to the research presented in the book Features benchmark datasets that have been used for testing the stable operation and efficiency of homogenization methods Explains the use of semiautomatic quality control software recently developed effective homogenization methods their testing and related new concepts and statistical tools

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