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Multiscale Problems in Science and Technology

Challenges
to Mathematical Analysis
and Perspectives



Springer

Multiscale Problems In Science And Technology

**Shigeru Itoh, J. Matsue, Kazuyuki
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American Book Publishing Record ,2002 Publications du Laboratoire Jacques-Louis Lions ,2005 **Journal of Numerical Mathematics** ,2007 **Aerospace Engineering Departmental Report** Iowa State University. Department of Aerospace Engineering,2007 **Computational Science for the 21st Century** M-O. Bristeau,1997-04-30 Computational science can loosely be defined as the endeavor to develop and analyse models for the simulation and control of complex processes This is achieved by making optimal use of computer resources and by drawing upon a variety of disciplines techniques and theories With the emergence of advanced computational and information technologies computational science now has a significant impact on engineering physical biological management and social sciences The contributions in this state of the art volume range from theoretical and numerical topics to practical implementations The subject matter includes modelling mathematical and numerical analysis differential equations linear algebra optimization domain decomposition computational fluid dynamics computational mechanics elasticity structure computational physics and chemistry electromagnetic control theory and other applications This volume is dedicated to Roland Glowinski on the occasion of his 60th birthday It is aimed at the next generation of scientists applied mathematicians computer scientists practitioners and engineers who will define computational science within the context of the challenging scientific industrial economic and societal problems of the 21st century Explosion, Shock Wave and High-Energy Reaction Phenomena II Shigeru Itoh,J. Matsue,Kazuyuki Hokamoto,2013-07-31 Selected peer reviewed papers from the International Symposium on Explosion Shock Wave and High Energy Reaction Phenomena 2013 ESHP Symposium 2013 March 27 29 2013 Nago Okinawa Japan

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