



Continuum Models and Discrete Systems

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NATO Science Series

Continuum Models Of Discrete Systems 4

Gérard A. Maugin



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nonlinear acoustic diagnostics EMMC2 A. Bertram,F. Sidoroff,1998 **Self-Consistent Methods for Composites** Sergey Kanaun,2025-09-26 This book introduces new chapters that delve into the structure of electromagnetic and elastic fields in anisotropic media the detailed solutions of the conductivity and elasticity problems for spherical radially transverse isotropic inclusions the analysis of the neutral inclusion problem in static conductivity and elasticity and the homogenization problem for polycrystalline materials In the second edition of this book readers will find a comprehensive update on the application of self consistent methods in material science reflecting the advancements in computational capabilities since its first publication It also emphasizes the growing importance of numerical methods which have expanded the applicability of self consistent methods and includes updated references to the latest research in the field since 2008 *Continuum Models of Discrete Systems* ,1981 **NASA Technical Paper** United States. National Aeronautics and Space Administration,1988 EUROMECH-MECAMAT'97 ,1998 *The Shock and Vibration Digest* ,1979 *Notices of the American Mathematical Society* American Mathematical Society,1982 *CONTINUUM MODELS OF DISCRETE SYSTEMS* J.W. [Ed.] PROVAN,1978 **Journal of Technical Physics** ,1989 *Continuum Models of Discrete Systems* K.-H. Anthony,H.-J. Wagner,1993-01-01 Proceedings of the 7th International Symposium on Continuum Models of Discrete Systems Paderborn Germany 1992

Multiscale Modeling of Cancer Vittorio Cristini,John Lowengrub,2010-09-09 Mathematical modeling analysis and simulation are set to play crucial roles in explaining tumor behavior and the uncontrolled growth of cancer cells over multiple time and spatial scales This book the first to integrate state of the art numerical techniques with experimental data provides an in depth assessment of tumor cell modeling at multiple scales The first part of the text presents a detailed biological background with an examination of single phase and multi phase continuum tumor modeling discrete cell modeling and hybrid continuum discrete modeling In the final two chapters the authors guide the reader through problem based illustrations and case studies of brain and breast cancer to demonstrate the future potential of modeling in cancer research This book has wide interdisciplinary appeal and is a valuable resource for mathematical biologists biomedical engineers and clinical cancer research communities wishing to understand this emerging field

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