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The common thread running throughout this volume is the use of geometric methods that serve to unify diverse disciplines and bring together a variety of scientists and mathematicians, in a manner that encourages cross-fertilization. Professor J.E. Marsden is a unique figure in this regard as his work has significantly influenced three distinctly separate communities of mathematicians, physicists, and engineers.

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Addresses the mathematical and numerical modelling of the human cardiovascular system, from patient data to clinical applications.

Comprehensive introduction to nonlinear elasticity for graduates and researchers, covering new developments in the field.

More than fifty years ago, Professor R. S. Rivlin pioneered developments in both the theory and experiments of rubber elasticity. These together with his other fundamental studies contributed to a revitalization of the theory of finite elasticity, which had been dormant, since the basic understanding was completed in the nineteenth century. This book with chapters on foundation, models, universal results, wave propagation, qualitative theory and phase transitions, indicates that the subject he reinvigorated has remainded remarkably vibran and has continued to present significant deep mathematical and experimental challenges.

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This book provides a unified theory on nonlinear electro-magnetomechanical interactions of soft materials capable of large elastic deformations. The authors include an overview of the basic principles of the classic theory of electromagnetism from the fundamental notions of point charges and magnetic dipoles through to distributions of charge and current in a non-deformable continuum, time-dependent electromagnetic fields and Maxwell’s equations. They summarize relevant theories of continuum mechanics, required to account for the deformability of material and present a constitutive framework for the nonlinear magneto-and electroelastic interactions in a highly deformable material. The equations contained in the book formulate and solve a variety of representative boundary-value problems for both nonlinear magnetoelasticity and electroelasticity.