


[DOWNLOAD](#)


Continuum Mechanics Using Mathematica 2014: Fundamentals, Methods, and Applications (Hardback)

By Antonio Romano, Addolorata Marasco

BIRKHAUSER BOSTON INC, United States, 2014. Hardback. Book Condition: New. 2nd Revised edition. 246 x 163 mm. Language: English . Brand New Book. This textbook s methodological approach familiarizes readers with the mathematical tools required to correctly define and solve problems in continuum mechanics. Covering essential principles and fundamental applications, this second edition of Continuum Mechanics using Mathematica(R) provides a solid basis for a deeper study of more challenging and specialized problems related to nonlinear elasticity, polar continua, mixtures, piezoelectricity, ferroelectricity, magneto-fluid mechanics and state changes (see A. Romano, A. Marasco, Continuum Mechanics: Advanced Topics and Research Trends, Springer (Birkhauser), 2010, ISBN 978-0-8176-4869-5). Key topics and features: * Concise presentation strikes a balance between fundamentals and applications * Requisite mathematical background carefully collected in two introductory chapters and one appendix * Recent developments highlighted through coverage of more significant applications to areas such as wave propagation, fluid mechanics, porous media, linear elasticity. This second edition expands the key topics and features to include: * Two new applications of fluid dynamics: meteorology and navigation * New exercises at the end of the existing chapters * The packages are rewritten for Mathematica 9 Continuum Mechanics using Mathematica(R): Fundamentals, Applications and Scientific Computing...



READ ONLINE
[3.64 MB]

Reviews

This publication is very gripping and interesting. We have go through and so i am confident that i am going to planning to read through yet again again in the foreseeable future. You are going to like how the blogger write this ebook.

-- **Dr. Thaddeus Turner PhD**

This book might be well worth a study, and much better than other. Indeed, it can be perform, continue to an amazing and interesting literature. I realized this publication from my i and dad suggested this book to find out.

-- **Dejuan Rippin**