


[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](#)
[9.2 MB]

Reviews

This pdf is fantastic. Sure, it can be engage in, nevertheless an interesting and amazing literature. Its been developed in an remarkably straightforward way and is particularly merely after i finished reading through this publication where in fact transformed me, change the way in my opinion.

-- **Mr. Lee Simonis PhD**

This book is really gripping and interesting. Of course, it is actually perform, still an interesting and amazing literature. You will not truly feel monotony at whenever you want of your time (that's what catalogues are for concerning when you request me).

-- **Claud Schaden**