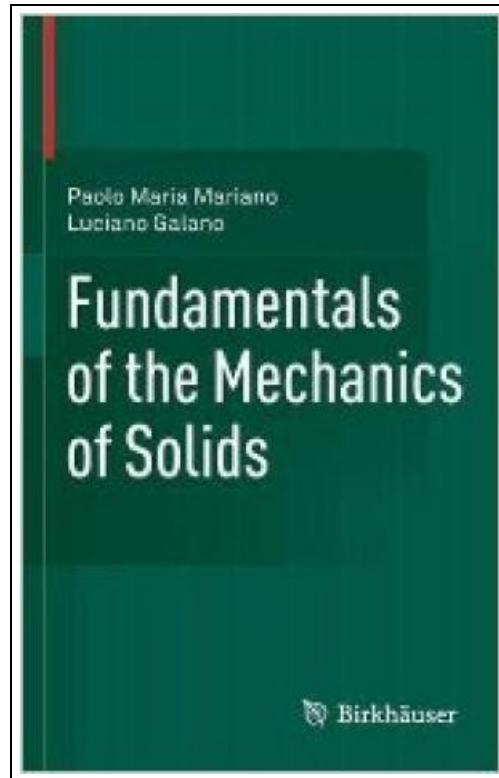


## Fundamentals of the Mechanics of Solids 2015 (Hardback)



Filesize: 3.78 MB

### ***Reviews***

*I actually started looking at this pdf. It is written in basic words and phrases and not confusing. I discovered this pdf from my i and dad suggested this publication to understand.*

*(Vergie Fahey)*

## FUNDAMENTALS OF THE MECHANICS OF SOLIDS 2015 (HARDBACK)

[DOWNLOAD](#)

Springer-Verlag New York Inc., United States, 2015. Hardback. Condition: New. 2015 ed. Language: English. Brand new Book. This distinctive textbook aims to introduce readers to the basic structures of the mechanics of deformable bodies, with a special emphasis on the description of the elastic behavior of simple materials and structures composed by elastic beams. The authors take a deductive rather than inductive approach and start from a few first, foundational principles. A wide selection of exercises, many with hints and solutions, are provided throughout and organized in a way that will allow readers to form a link between abstract mathematical concepts and real-world applications. The text begins with the definition of bodies and deformations, keeping the kinematics of rigid bodies as a special case; the authors also distinguish between material and spatial metrics, defining each one in the pertinent space. Subsequent chapters cover observers and classes of possible changes; forces, torques, and related balances, which are derived from the invariance under classical changes in observers of the power of the external actions over a body, rather than postulated a priori; constitutive structures; variational principles in linear elasticity; the de Saint-Venant problem; yield criteria and a discussion of their role in the representation of material behavior; and an overview of some bifurcation phenomena, focusing on the Euler rod. An appendix on tensor algebra and tensor calculus is included for readers who need a brief refresher on these topics. Fundamentals of the Mechanics of Solids is primarily intended for graduate and advanced undergraduate students in various fields of engineering and applied mathematics. Prerequisites include basic courses in calculus, mathematical analysis, and classical mechanics.

[Read Fundamentals of the Mechanics of Solids 2015 \(Hardback\) Online](#)[Download PDF Fundamentals of the Mechanics of Solids 2015 \(Hardback\)](#)

## You May Also Like



**To Do List: Checklist Book, To Do Book, Daily Task Tracker, To Do List Notebook Paperback, Agenda Notepad For Men, Women, Students & Kids, Cute Sea Creature Cover (Paperback)**

Amazon Digital Services LLC - Kdp Print Us, United States, 2018. Paperback. Condition: New. Language: English. Brand new Book. Love the feeling of accomplishment when a task is ticked off your to do list? Then...

[Save](#) [Document](#)

»



**To Do List Notebook: Checklist Book, To Do Book, Daily Task Tracker, To Do List Notebook Paperback, Agenda Notepad For Men, Women, Students & Kids, Cute Cowboys Cover (Paperback)**

Amazon Digital Services LLC - Kdp Print Us, United States, 2018. Paperback. Condition: New. Language: English. Brand new Book. Love the feeling of accomplishment when a task is ticked off your to do list? Then...

[Save](#) [Document](#)

»



**Minecraft: Exploded Builds: Medieval Fortress: An Official Minecraft Book from Mojang (Hardback)**

Egmont UK Ltd, United Kingdom, 2016. Hardback. Condition: New. UK ed. Language: English. Brand new Book. Check out the brand new series of official Minecraft Guides. The first four titles in the series, Guide to...

[Save](#) [Document](#)

»



**The Use of Shooting Flying: Familiarly Explain d by Way of Dialogue. Containing Directions for the Choice of Guns for Various Occasions. . with Many Useful Hints . (Paperback)**

Gale Ecco, Print Editions, United States, 2010. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The 18th century was a wealth of knowledge, exploration and rapidly growing technology and expanding...

[Save](#) [Document](#)

»



**On Your Marks: The Adventure Begins (Hardback)**

Byways, United States, 2015. Hardback. Condition: New. Library ed. Language: English. Brand new Book. Ewan, Zane, and Ganix--three half-brothers take sibling rivalry to new lengths as they race each other across their homeland. Magic isn't...

[Save](#) [Document](#)

»