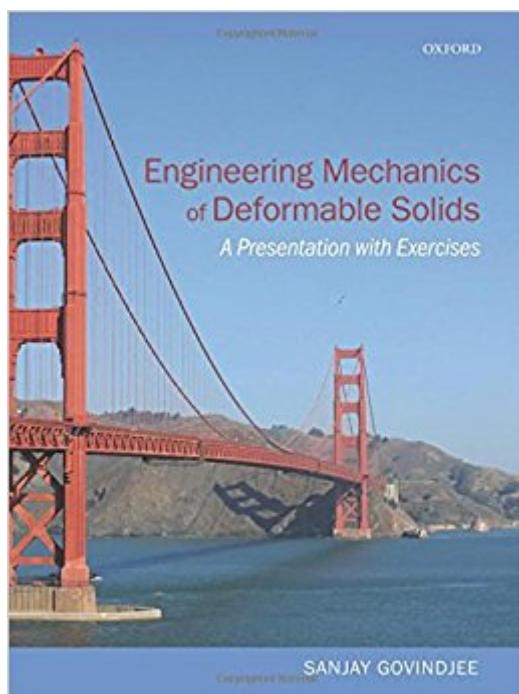


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Engineering Mechanics Of Deformable Solids: A Presentation With Exercises



Synopsis

This book covers the essential elements of engineering mechanics of deformable bodies, including mechanical elements in tension-compression, torsion, and bending. It emphasizes a fundamental bottom up approach to the subject in a concise and uncluttered presentation. Of special interest are chapters dealing with potential energy as well as principle of virtual work methods for both exact and approximate solutions. The book places an emphasis on the underlying assumptions of the theories in order to encourage the reader to think more deeply about the subject matter. The book should be of special interest to undergraduate students looking for a streamlined presentation as well as those returning to the subject for a second time. To request a copy of the Solutions Manual, visit: <http://global.oup.com/uk/academic/physics/admin/solutions>

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"Running counter to the trend in undergraduate texts in engineering solid mechanics, Govindjee's exposition is compelling for the manner in which it reveals the underlying principles behind the resulting equations. Well written, concise, and insightful, the approach encourages an understanding of fundamental concepts critical to the development of mathematical models in engineering mechanics. The book is highly recommended as a refreshingly intellectual take on a classic topic." -- Garrett J. Hall, California Polytechnic State University

Sanjay Govindjee is a Professor of Civil Engineering at the University of California, Berkeley (1993-2006, 2008-present). His main interests are in theoretical and computational mechanics with

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