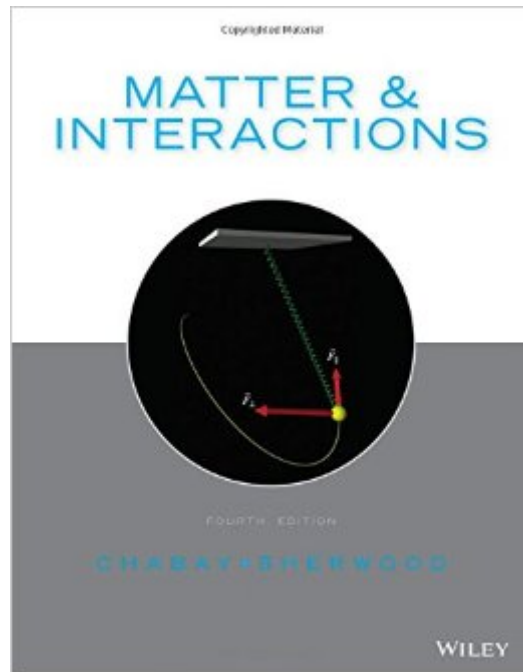


The book was found

# Matter And Interactions



## Synopsis

Matter and Interactions, 4th Edition offers a modern curriculum for introductory physics (calculus-based). It presents physics the way practicing physicists view their discipline while integrating 20th Century physics and computational physics. The text emphasizes the small number of fundamental principles that underlie the behavior of matter, and models that can explain and predict a wide variety of physical phenomena. Matter and Interactions, 4th Edition will be available as a single volume hardcover text and also two paperback volumes.

## Book Information

Hardcover: 1040 pages

Publisher: Wiley; 4 edition (January 7, 2015)

Language: English

ISBN-10: 1118875869

ISBN-13: 978-1118875865

Product Dimensions: 8.5 x 1.6 x 10.9 inches

Shipping Weight: 4.6 pounds (View shipping rates and policies)

Average Customer Review: 4.4 out of 5 stars [See all reviews](#) (10 customer reviews)

Best Sellers Rank: #73,857 in Books (See Top 100 in Books) #28 in [Books > Science & Math > Physics > Mechanics](#) #44 in [Books > Textbooks > Science & Mathematics > Mechanics](#) #205 in [Books > Textbooks > Science & Mathematics > Physics](#)

## Customer Reviews

I have been teaching physics for 25 years. I have used Matter and Interactions for the past 9 years, since the second edition. M&I is the only introductory textbook that caused me to think deeply about the connections we make in physics and the principles that we espouse as most important. By emphasizing principles and process over content, M&I provides students the tools to adapt to the numerous sub-disciplines of physics and other disciplines of science. Since adopting M&I, I have found students spend more time seeking connections and less time memorizing factoids. By being exposed to problems that can either lack data or provide excess amounts of information, that require students to identify assumptions in problem solving, students who use M&I become comfortable with the ambiguity found in doing science. Given that we provide multiple tracks toward upper division physics courses, it is easy for me to identify students in my upper division courses who use a principles first approach vs. a memorize the technique approach when solving problems especially when they start analyzing a novel system. Emphasizing principles over content in

studying physics has been most important in our integrated introductory science curriculum where biology, chemistry and physics are taught as part of a full year science core. M&I includes direct connections between physics principles and topics of importance in biochemistry even though this is a text that is not aimed at the life science major. As a consequence, students value physics as a way to understand biochemical reactions and physiological outcomes. And by emphasizing a handful of principles, e.g., forces, energy, fields, I have had no difficulty teaching physics using this text completely out of order.

[Download to continue reading...](#)

Matter and Interactions Calder by Matter: Herbert Matter Photographs of Alexander Calder and his Work Incredible 5 Point Scale: The Significantly Improved and Expanded Second Edition; Assisting Students in Understanding Social Interactions and Controlling their Emotional Responses Ocean, Ice, and Atmosphere: Interactions at the Antarctic Continental Margin (Antarctic Research Series) Treatment of Autism Spectrum Disorders: Evidence-Based Intervention Strategies for Communication and Social Interactions (CLI) Branded Interactions: Creating the Digital Experience New Key Geography Interactions Interactions: Collaboration Skills for School Professionals (7th Edition) Gender: Ideas, Interactions, Institutions Plants in Wetlands (Redington Field Guides to Biological Interactions) Plant-Animal Interactions in the Marine Benthos (Systematics Association Special Volumes) The Physics of Laser-Atom Interactions (Cambridge Studies in Modern Optics) World Politics: Interests, Interactions, Institutions (Third Edition) Designing Interactions (MIT Press) Bulletproof Web Design: Improving flexibility and protecting against worst-case scenarios with HTML5 and CSS3 (3rd Edition) (Voices That Matter) A Guide to Japanese Prints and Their Subject Matter (English and Japanese Edition) The Heart of the Matter : Breaking Codes and Making Connections Between You and Your Dog or Your Cat The Emotional Lives of Animals: A Leading Scientist Explores Animal Joy, Sorrow, and Empathy &#151; and Why They Matter What is Life?: With Mind and Matter and Autobiographical Sketches (Canto Classics) Leviathan: or The Matter, Form, and Power of a Commonwealth, Ecclesiastical and Civil

[Dmca](#)