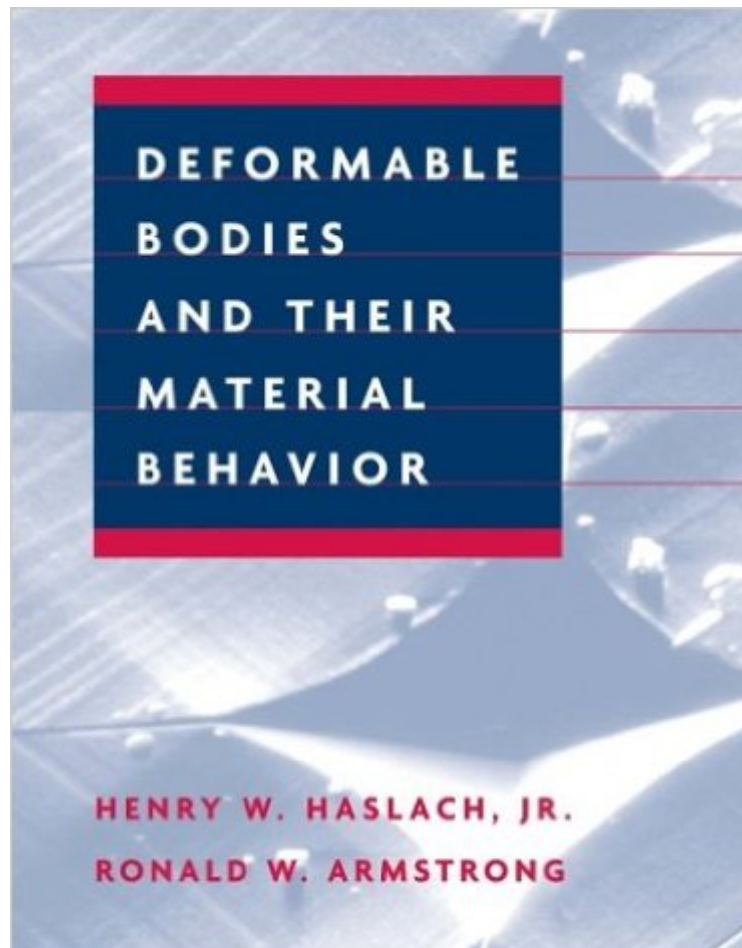


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# Deformable Bodies And Their Material Behavior



## Synopsis

**ESSENTIAL TOOLS FOR AVOIDING MATERIAL FUNCTIONAL FAILURE** Offering comprehensive, organized, and detailed coverage, Henry Haslach and Ronald Armstrong's *Deformable Bodies and Their Material Behavior* present a quantitative description of the mechanical behavior of a broad range of deformable bodies under widely differing conditions and at a level sufficient to match real behavior, and introduces the key tools needed to avoid material functional failure. Covering stress and deformation analysis, material failure modes, and mechanical rest evaluations of material properties, this text provides the tools, insights, and knowledge needed to build a strong foundation for the design of mechanical devices. Considers most types of materials: metals, ceramics, fibered composites, concrete biological tissue, rubber, polymers, and wood. Focuses on the relationships between material properties of a deformable body and the forces and displacements applied to its boundary. Helps develop an appreciation for the approximations made in producing the mathematical models intended to predict mechanical response. Provides historical background on the definitions and models that designers commonly use, describing the practical reasons why these tools were invented.

## Book Information

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Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (2 customer reviews)

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## Customer Reviews

Great book, very well organized. Each chapter is essential complete enough to be self-contained. Shows that not everything in the engineering world is as straight-forward as we're often led to believe. Even provides a bit of history and motivation. The chapters have well done examples and

the problems are typically similar.

For learning about, or seriously reviewing, the broad field of deformable bodies and their material behavior, as a professional engineer, or as someone interested in one of the most fundamental and solid fields at the foundation of pure and applied mathematics, this book is fine. You don't need any more math than you as an engineer are expected to have to use this book - but if you work the problems, or look carefully at them, you'll gain facility and a great deal of intuition. I don't know of any book that combines a better sense of materials with mechanics.

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Deformable Bodies and Their Material Behavior Engineering Mechanics of Deformable Solids: A Presentation with Exercises Teaching Children with Down Syndrome about Their Bodies, Boundaries, and Sexuality (Topics in Down Syndrome) by Terri Couwenhoven 1st (first) Edition (10/10/2007) NLP: Maximize Your Potential- Hypnosis, Mind Control, Human Behavior and Influencing People (NLP, Mind Control, Human Behavior) Reflexes, Learning And Behavior: A Window into the Child's Mind : A Non-Invasive Approach to Solving Learning & Behavior Problems Brooks/Cole Empowerment Series: Human Behavior in the Social Environment (SW 327 Human Behavior and the Social Environment) BUNDLE: Garrett: Brain & Behavior, 4E + Garrett: Study Guide to Accompany Bob Garrett's Brain & Behavior: An Introduction to Biological Psychology, 4E Sex is a Funny Word: A Book about Bodies, Feelings, and YOU Let's Talk About Sex: Growing Up, Changing Bodies, Sex and Sexual Health In a Queer Time and Place: Transgender Bodies, Subcultural Lives (Sexual Cultures) Bodies of Pain: Suffering in the Works of Hartmann von Aue (Studies in Medieval History and Culture) Toxin Toxout: Getting Harmful Chemicals Out of Our Bodies and Our World The Odd Body: Mysteries of Our Weird and Wonderful Bodies Explained Inka Bodies and the Body of Christ: Corpus Christi in Colonial Cuzco, Peru Our Bodies Belong to God: Organ Transplants, Islam, and the Struggle for Human Dignity in Egypt Toxic Bodies: Hormone Disruptors and the Legacy of DES Solar System 2016 Calendar: A Visual Exploration of the Planets, Moons and Other Heavenly Bodies That Orbit Our Sun Solar System: A Visual Exploration of All the Planets, Moons and Other Heavenly Bodies that Orbit Our Sun At Office Yoga: Your At Work Yoga Guide For Stiff Bodies That Sit All Day (Just Do Yoga Book 7) A-Z of British Bus Bodies

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