

Materials for Engineers

William F. Hosford



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This title is intended for a first undergraduate course in materials science and engineering with an emphasis on mechanical and electrical properties. The text features numerous useful examples and exercises. It differs from some available texts in that it covers the materials of greatest interest in most undergraduate programs, leaving more specialized and advanced coverage for later course books. This volume begins with phases and phase diagrams. This is followed by a chapter on diffusion, which treats diffusion in multiphase systems as well as single phase systems. The next several chapters on mechanical behavior and failure should be of particular interest to mechanical engineers. There are chapters on iron and steel and on nonferrous alloys followed by chapters on specific types of materials. There is an emphasis on manufacturing, including recycling, casting and welding, powder processing, solid forming, and more modern techniques including photolithography, vapor deposition and the use of lasers.



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