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Volume One of the Mechanical Engineer's Handbook, Materials and Engineering Mechanics gives you accessible and in-depth access to the most common topics you'll encounter in the discipline: carbon and alloy steels, stainless steels, aluminum alloys, copper and copper alloys, titanium alloys for design, nickel and its alloys, magnesium and its alloys, superalloys for design, composite materials, smart materials, electronic materials, viscosity measurement, and much more.

Volume Two: Design, Instrumentation, and Controls covers electronics, MEMS, and instrumentation and control, giving you accessible and in-depth access to the topics you'll encounter in the discipline: computer-aided design, product design for manufacturing and assembly, design optimization, total quality management in mechanical system design, reliability in the mechanical design process for sustainability, life-cycle design, design for remanufacturing processes, signal processing, data acquisition and display systems, and much more.

Volume Three: Manufacturing and Management covers environmentally benign manufacturing, production planning, production processes and equipment, manufacturing systems evaluation, coatings and surface engineering, physical vapor deposition, mechanical fasteners, seal technology, statistical quality control, nondestructive inspection, intelligent control of material handling systems, and much more are covered in volume three of *Mechanical Engineer's Handbook*.

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