

Engineering Mechanics of Solids (2nd Edition)

By Egor P. Popov

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This book presents a comprehensive, cross-referenced examination of engineering mechanics of solids. Traditional topics are supplemented by several newly-emerging disciplines, such as the probabilistic basis for structural analysis, and matrix methods. Although retaining its character as a complete traditional book on mechanics of solids with advanced overtones from the first edition, the second edition of *Engineering Mechanics of Solids* has been significantly revised. The book reflects an emphasis on the SI system of units and presents a simpler approach for calculations of axial stress that provides a more obvious, intuitive approach. It also now includes a greater number of chapters as well as an expanded chapter on Mechanical Properties of Materials and introduces a number of avant-garde topics. Among these topics are an advanced analytic expression for cyclic loading and a novel failure surface for *brittle* material. An essential reference book for civil, mechanical, and aeronautical engineers.

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A comprehensive, cross-referenced examination of engineering mechanics of solids. Traditional topics are supplemented by an exposure to several newly-emerging disciplines, such as the probabilistic basis for structural analysis, and matrix methods.

From the Back Cover
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