



Failure of Materials in Mechanical Design: Analysis, Prediction, Prevention, 2nd Edition

By Jack A. Collins

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Covers the basic principles of failure of metallic and non-metallic materials in mechanical design applications. Updated to include new developments on fracture mechanics, including both linear-elastic and elastic-plastic mechanics. Contains new material on strain and crack development and behavior. Emphasizes the potential for mechanical failure brought about by the stresses, strains and energy transfers in machine parts that result from the forces, deflections and energy inputs applied.

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Editorial Review

From the Publisher

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From the Back Cover

Updated to include new developments in fracture mechanics, this new edition delivers the same clear, comprehensive coverage of the subject as its predecessor. Like its predecessor, Failure of Materials in Mechanical Design, Second Edition provides a comprehensive examination of every method now being used to analyze, predict, and prevent such failures. It presents the basic principles of the science, and goes beyond the fundamentals to offer new insights on how to apply this theory to actual design applications. The new edition has been extensively revised and updated with state-of-the-art developments in fracture mechanics - plus all new material on crack development and behavior. It also features new problems and real-world examples. Topics include modes of mechanical failure, strength and deformation of engineering metals, combined stress theories of failure and their use in design, concepts of cumulative damage, life prediction and fracture control, high-cycle fatigue, fatigue testing procedures and statistical interpretations of data, shock and impact, fretting, buckling and instability, and more. As the leading book for advanced undergraduate and graduate courses on mechanical failure, Failure of Materials in Mechanical Design, Second Edition will continue to be an invaluable text and reference for mechanical engineers.

Users Review

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Tyrone Smith:

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