

Advanced Strength and Applied Elasticity

Second SI Edition

A. C. Ugural S. K. Fenster



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Advanced Mechanics of Materials and Applied Elasticity Ansel C. Ugural, Saul K. Fenster, 2011-06-21 This systematic exploration of real world stress analysis has been completely updated to reflect state of the art methods and applications now used in aeronautical civil and mechanical engineering and engineering mechanics Distinguished by its exceptional visual interpretations of solutions Advanced Mechanics of Materials and Applied Elasticity offers in depth coverage for both students and engineers The authors carefully balance comprehensive treatments of solid mechanics elasticity and computer oriented numerical methods preparing readers for both advanced study and professional practice in design and analysis This major revision contains many new fully reworked illustrative examples and an updated problem set including many problems taken directly from modern practice It offers extensive content improvements throughout beginning with an all new introductory chapter on the fundamentals of materials mechanics and elasticity Readers will find new and updated coverage of plastic behavior three dimensional Mohr s circles energy and variational methods materials beams failure criteria fracture mechanics compound cylinders shrink fits buckling of stepped columns common shell types and many other topics The authors present significantly

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