



THEORY OF ELASTICITY AND FRACTURE MECHANICS

VIJAY G. UKADGAONKER

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Primarily intended for the postgraduate students of mechanical, civil and other engineering branches, this book covers both theory of elasticity and fracture mechanics in a single volume. It provides the essential fundamental knowledge of the subject matter with solutions that are required in engineering practice and design. Besides, it also teaches students to apply the methods of theory of elasticity in technical calculations on the basis of illustrative examples.

The book includes the latest researches done by the author at Indian Institute of Technology Bombay. It covers problems in two-dimensional elasticity, complex variable approach to two-dimensional elasticity, anisotropic elasticity and interaction effect of problems with two holes using Swartz alternating method. The number of problems given as exercise at the end of the chapter will help the students to reinforce the understanding of the subject.

Key features

- Discusses the subject in an easy to understand manner
- Highlights the new theory (Ip Theory) for fracture initiation
- Covers stress analysis of fracture and macroscopic theories of fracture
- Contains the methods to formulate and solve problems of solid mechanics using Finite Element Method

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