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About the Author LS Srinath received his PhD from Illinois Institute of Technology, Chicago, and has served as Professor of Mechanics and Aerospace Engineering at University He is a distinguished alumnus of IIT, Chicago.

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Fracture Mechanics is an essential tool to evaluate whether a component is likely to fail or not. This book has been written in a simple and step-wise manner to help readers familiarise with the basic and advanced topics. Additionally it has over 185 illustrations to further reinforce and simplify the learning process. With this coverage, the book will be useful to professionals and students of engineering.

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aerospace, and marine engineering, this book provides an indepth analysis of the fundamental principles of mechanics of deformable solids based on the phenomenological approach. The book starts with linear and angular momentum principles for a body. It introduces the concepts of stress, strain and the constitutive relations using tensors. Then it goes on to give a description of the laws of thermodynamics as a restriction on constitutive relations and formulates the boundary value problem in elasticity. Besides, the text treats bar under axial, bending and torsional deformation as well as plane stress and plane strain idealizations. The book concludes with a discussion on variational mechanics and the theory of plasticity.

DISTINGUISHING FEATURES | Elaborate treatment of constitutive relations for linear elasticity. | Consistent formulation of strength of materials approach and three-dimensional elasticity for bar under axial, bending and torsional deformation. | Presentation of failure criteria and plasticity theory taking the modern developments into account. ? Large number of worked-out examples throughout the text and exercises at the end of each chapter.

- Covers the basic core subjects of mechanics of solids and structures
- Basic theoretical concepts involving advanced mathematical equations emphasized in a lucid manner
- Logical presentation of the topics fortified with numerous practical examples
- Excellent illustrations for easy comprehension of difficult topics
- Latest developments in theoretical concepts included in each chapter

Experimental solid mechanics is the study of materials to determine their physical properties. This study might include performing a stress analysis or measuring the extent of displacement,

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shape, strain and stress which a material suffers under controlled conditions. In the last few years there have been remarkable developments in experimental techniques that measure shape, displacement and strains and these sorts of experiments are increasingly conducted using computational techniques. Experimental Mechanics of Solids is a comprehensive introduction to the topics, technologies and methods of experimental mechanics of solids. It begins by establishing the fundamentals of continuum mechanics, explaining key areas such as the equations used, stresses and strains, and two and three dimensional problems. Having laid down the foundations of the topic, the book then moves on to look at specific techniques and technologies with emphasis on the most recent developments such as optics and image processing. Most of the current computational methods, as well as practical ones, are included to ensure that the book provides information essential to the reader in practical or research applications. Key features: Presents widely used and accepted methodologies that are based on research and development work of the lead author Systematically works through the topics and theories of experimental mechanics including detailed treatments of the Moire, Speckle and holographic optical methods Includes illustrations and diagrams to illuminate the topic clearly for the reader Provides a comprehensive introduction to the topic, and also acts as a quick reference guide This comprehensive book forms an invaluable resource for graduate students and is also a point of reference for researchers and practitioners in structural and materials engineering.