

Failure analysis of engineering structures: methodology and case histories

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Abstrak

Failure analysts, practicing engineers, and students of engineering will find useful guidance and detailed examples in this reference work on the challenging and complex task of investigating service failures and accidents. Based on over four decades of fieldwork by the Failure Analysis and Accident Investigation Group at the National Aerospace Laboratories (Bangalore, India), chapters in the book cover common causes of failures with numerous examples, methodology of failure analysis including some advanced techniques, various mechanisms of failures and characteristic macroscopic and microscopic features that provide significant clues to their causes. The authors also provide exemplary coverage on the detection and identification of damage from explosive sabotage. A separate section with more than 50 case studies of service failures also provides valuable lessons for future designers, manufacturers, users, and maintenance personnel.