



Fractography: Observing, Measuring and Interpreting Fracture Surface Topography

By Derek Hull

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Fracture surfaces are produced when a solid breaks. The appearance of the surface, particularly the topography, depends on both the type of material broken and the conditions under which it was broken, such as stress, temperature, or environment. Fractography describes the ways of studying these surfaces. Coverage includes all the information needed to understand the deformation and fracture in all types of solids and to interpret the topographical features in terms of the microstructure and the way it was tested. It also provides details on how to design clear and unambiguous experiments that involve many aspects of fracture in a wide range of solids. This book is an invaluable resource for undergraduate and graduate students, as well as researchers, industrial scientists, engineers, and anyone with an interest in materials science.

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Review

"This book is an attractive one containing nice fractographs and clear illustrations....It is well organized and covers the very basic fundamentals working up to a very detailed and concise description of the mechanisms in play and the evolution of the fracture morphology...an excellent reference for those working in brittle materials and should be added to the other cornerstone books in the field."

Applied Mechanics Reviews

"Derek Hull expounds these components of fractography with great skill and authority. He gives equal weight to the experimental techniques and to the interpretive principles, and interweaves them so that he achieves remarkable integrity and narrative flow. Every page reveals first-hand experience. The illustrations are exemplary, and beautifully reproduced ... Lectures based on the book should engage the enthusiastic attention of every student of materials science, whether a graduate student or not... By virtue of its elegant exposition, and the integrity of its point of view, I believe that wherever fracture, fast or slow, of whatever material, is a topic of interest, Hull's book will be an essential reference. and many scientists will be pleased to display it on their coffee-tables, alongside other equally elegant but much less profound works. It is a classic."

Contemporary Physics

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