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Título: Fracture And Life

Autor: Cotterell, Brian

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Sinopsis

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This book is an interdisciplinary review of the effect of fracture on life, following the development of the understanding of fracture written from a historical perspective. After a short introduction to fracture, the first section of the book covers the effects of fracture on the evolution of the Earth, plants and animals, and man. The second section of the book covers the largely empirical control of fracture from ancient times to the end of the nineteenth century. The final section reviews the development of fracture theory as a discipline and its application during the twentieth century through to the present time.

Contents:

Introduction and Basic Solid Mechanics

Evolution of the Earth; Evolution of Life

Human Evolution and Stone Tools

Building in Stone and Concrete in the Ancient World

From the Renaissance to the Industrial Revolution

From the Industrial Revolution to 1900

The First Half of the Twentieth-Century

Fundamentals of Fracture and Metal Fracture from 1950 to the Present

The Diversity of Materials and Their Fracture Behaviour

Cutting and Piercing

Recent Developments and the Twenty-First Century