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Understanding of the fatigue phenomena covering both

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crack initiation and crack growth is emphasized in view of possible influences of design variables, material selection, production technology and load spectra on the fatigue performance of a structure. Prediction

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methods for fatigue lives and fatigue crack growth are discussed as well as verification by experiments.

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In the 19th century fatigue was thought to be a mysterious phenomenon in the material because fatigue damage could not be seen. Failure apparently occurred without any previous

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warning. In the 20th century, we have learned that repeated load applications can start a fatigue mechanism in the material leading to nucleation of a small crack, followed by crack growth,

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and ultimately to complete failure.

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Fatigue strength of structural metallic materials can be affected by

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liquid or gaseous surroundings. The term "corrosion fatigue" is usually used to characterize

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The paper surveys the historical development of scientific and engineering knowledge about fatigue of materials and structures in the 20th century. This includes fatigue as a material phenomenon,

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prediction models for fatigue properties of structures, and load spectra. The review leads to an inventory of the present state of the art.

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materials in the 20th century ...

Fatigue fractures and related structural failures may be caused by a variety of factors, such as quality of applied materials, the production technology, the

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structural design,
inappropriate reliability
calculations,
underestimations of load
spectra, and inappropriate
use of structures.

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An important theme of the book is the understanding of what happens in the material of a structure in service if the structure is subjected to a spectrum of cyclic loads. Knowledge of the fatigue mechanism in the

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material and how it can be affected by a large variety of practical conditions is essential for dealing with fatigue problems.

*Fatigue of Structures and Materials | Jaap Schijve |
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the purpose of the present book is to explain these topics to indicate how they can be analyzed and how this

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Engineering Materials & Structures (FFEMS) encompasses the broad topic of structural integrity which is founded on the mechanics of fatigue and fracture, and is concerned with the reliability and

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effectiveness of various materials and structural components of any scale or geometry. The editors publish original contributions that will stimulate the intellectual innovation that generates

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elegant, effective and economic engineering designs.

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