

Fatigue Of Structures And Materials

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Understanding of the fatigue phenomena covering both 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.

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Fatigue of structures and materials covers a wide scope of different topics. The purpose of the present book is to explain these topics, to indicate how they can be analyzed, and how this can contribute to the designing of fatigue resistant structures and to prevent structural fatigue problems in service.

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9781402068072: Fatigue of Structures and Materials ...

This book is primarily a textbook. It is written for engineers, students and teachers, and it should also be useful for people working on various topics related to fatigue of structures and materials. The book can be used for graduate and undergraduate courses and for short courses for people

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Mechanical fatigue testing of materials, prototype structures of sensors is often required prior to the deployment of these components in industrial applications.

Fatigue of Structures and Materials | Jaap Schijve | Springer

Various conferences on fatigue of structures and materials are already planned for the forthcoming years of the 21st century implying that the fatigue problem is apparently not yet fully solved. If the problem still exists after 100 years in the previous century, there is something to be explained.

Fatigue (material) - Wikipedia

Understanding of the fatigue phenomena covering both 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 methods for fatigue lives and fatigue...

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In materials science, fatigue is the weakening of a material caused by cyclic loading that results in progressive and localized structural damage and the growth of cracks. Once a crack has initiated, each loading cycle will grow the crack a small amount, typically producing striations on some parts of the fracture surface.

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The structure must be designed for durability, and thus against fatigue. This includes not only the overall concept of the structure and safety and economic aspects, but also questions on detail design, joints, production and material surface quality. The designer must predict the fatigue performance of the structure.

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Development and application of methods for predicting the fatigue life of structural components. Characterization and response of materials to cyclic loading. Fatigue resistant design of structures. Both fatigue crack initiation and crack propagation concepts are discussed.

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Fatigue & Fracture of 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 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 elegant, effective and economic engineering designs.