



Fatigue of Structures and Materials, w. CD-ROM

By Schijve, Jaap

Book Condition: New. Publisher/Verlag: Springer Netherlands | This updated textbook is for people working on fatigue problems of engineering structures and materials associated with design, predictions, load spectra and experimental verifications. | 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. Chapter 1 gives a general survey of the topic with brief comments on the significance of the aspects involved. This serves as a kind of a program for the following chapters. The central issues in this book are predictions of fatigue properties and designing against fatigue. These objectives cannot be realized without a physical and mechanical understanding of all relevant conditions. In Chapter 2 the book starts with basic concepts of what happens in the material of a structure under cyclic loads. It illustrates the large number of variables which can affect fatigue properties and it provides the essential background knowledge for subsequent chapters. Different subjects are presented in the following main parts: - Basic chapters on fatigue...



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