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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

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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

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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

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which can affect fatigue properties and it provides the essential background knowledge for subsequent chapters.

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Cyclic Plasticity of Metals: Modeling Fundamentals and Applications provides an exhaustive overview of the fundamentals and applications of various cyclic plasticity models including forming and spring back, notch analysis, fatigue life prediction, and more. Covering metals with an array of different structures, such

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as hexagonal close packed (HCP), face centered cubic (FCC), and body centered cubic (BCC), the book starts with an introduction to experimental macroscopic and microscopic observations of cyclic plasticity and then segues into a discussion of the fundamentals of the different cyclic plasticity models, covering topics such as

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Various metals and alloys with different cell structures (cubic, hexagonal, and more), allowing for more accurate evaluation of a component's performance under loading Provides real-world industrial context by demonstrating applications of cyclic plasticity models in the analysis of engineering components

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