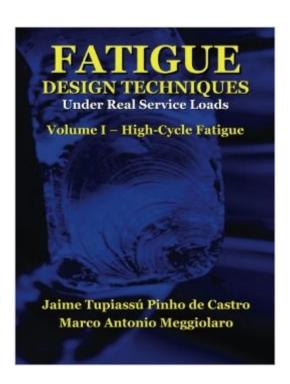
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Fatigue Design Techniques: Vol. I - High-Cycle Fatigue (Volume 1)





Synopsis

This first volume from the series introduces the structural failure and fatigue dimensioning problems, addressing the basic properties of structural materials and the effects of stress concentration at notches. It is also devoted to the nominal stress vs. fatigue life approach, through the SN method and welded joint codes, for high-cycle problems characterized by nominally elastic behavior where load levels are low enough to neglect local plasticity at the crack initiation location. This volume contains as well appendices with representative mechanical properties and estimates for several structural materials, in addition to numerous stress concentration factor equations.

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