1. Record Nr. UNINA9910966833803321 Autore Lee Yung-Li Titolo Metal fatigue analysis handbook : practical problem-solving techniques for computer-aided engineering / / Yung-Li Lee, Mark E. Barkey, Hong-Tae Kang Waltham, Mass., : Butterworth-Heinemann, 2012 Pubbl/distr/stampa **ISBN** 9786613196040 9781283196048 1283196042 9780123852052 0123852056 Edizione [1st ed.] Descrizione fisica 1 online resource (633 p.) Altri autori (Persone) BarkeyMark E KangHong-Tae Disciplina 620.1/66 620.166 Soggetti Metals - Fatigue Computer-aided engineering Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Machine generated contents note: Road Load Analysis Techniques in Automotive Engineering - Xiaobo Yang & Peijun Xu Pseudo Stress Analysis Techniques - Yung-Li Lee & Mingchao Guo Rainflow Cycle Counting Techniques - Yung-Li Lee & Tana Tihung Stress-Based Uniaxial Fatique Analysis - Yung-Li Lee & Mark E. Barkey Stress-Based Multiaxial Fatique Analysis - Yung-Li Lee & Mark E. Barkey Strain-Based Uniaxial Fatigue Analysis - Yung-Li Lee & Mark E. Barkey Fundamentals of Cyclic Plasticity Theories - Yung-Li Lee & Mark E. Barkey Strain-Based Multiaxial Fatigue Analysis -Mark E. Barkey & Yung-Li Lee Vibration Fatigue Testing and Analysis - Yung-Li Lee & Hong-Tae Kang Fatique of Seam Welded Joints - Hong-Tae Kang & Yung-Li Lee Fatique Life Prediction Methods of Resistance Spot Welded Joints - Hong-Tae

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## Sommario/riassunto

Understand why fatigue happens and how to model, simulate, design and test for it with this practical, industry-focused reference. Written to bridge the technology gap between academia and industry, the Metal Fatigue Analysis Handbook presents state-of-the-art fatigue theories and technologies alongside more commonly used practices, with working examples included to provide an informative, practical, complete toolkit of fatigue analysis. Prepared by an expert team with extensive industrial, research and professorial experience, the book will help you to understand