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Altri autori (Persone)	RechoNaman
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fatigue Life Analyses of Welded Structures; Table of Contents; Abbreviations; PART I. Common Practice; Chapter 1. Introduction; 1.1. The importance of welded joints and their fatigue behavior; 1.2. Objectives and scope of the book; 1.3. The content of the various chapters; 1.4. Other literature in the field; 1.5. Why should the practicing engineer apply reliability methods?; 1.6. How to work with this book; 1.7. About the authors; Chapter 2. Basic Characterization of the Fatigue Behavior of Welded Joints; 2.1. Introduction and objectives; 2.2. Fatigue failures 2.3. Basic mechanisms of metal fatigue 2.4. Parameters that are important to the fatigue damage process; 2.4.1. External loading and stresses in an item; 2.4.2. Geometry, stress and strain concentrations; 2.4.3. Material parameters; 2.4.4. Residual stresses; 2.4.5. Fabrication quality and surface finish; 2.4.6. Influence of the environment; 2.5. Important topics for welded joints; 2.5.1. General overview; 2.6. Various types of joints; 2.6.1. Plated joints; 2.6.2. Tubular joints; 2.7.

References; Chapter 3. Experimental Methods and Data Analysis; 3.1. Introduction and objectives
3.2. Overview of various types of tests3.3. Stress-life testing (S-N testing) of welded joints; 3.3.1. Test specimens and test setup; 3.3.2. Preparations and measurements; 3.3.3. Test results; 3.4. Testing to determine the parameters in the strain-life equation; 3.5. Crack growth tests - guidelines for test setup and specimen monitoring; 3.6. Elementary statistical methods; 3.6.1. Linear regression analyses; 3.7. References; Chapter 4. Definition and Description of Fatigue Loading; 4.1. Introduction and objectives; 4.2. Constant amplitude loading; 4.3. Variable amplitude loading
4.3.1. Overview4.3.2. Rain-flow cycle counting of time series; 4.3.3. The energy spectrum approach; 4.4. References; Chapter 5. The S-N Approach; 5.1. Introduction and objectives; 5.2. Method, assumptions and important factors; 5.2.1. Statistics for the S-N approach, median and percentile curves; 5.2.2. Discussion of S-N curves-important factors; 5.2.2.1. The threshold phenomenon; 5.2.2.2. Mean stress and loading ratio; 5.2.2.3. Stress relieving; 5.2.2.4. The thickness effect; 5.2.2.5. Misalignment; 5.2.2.6. Post-weld improvement techniques; 5.2.2.7. Corrosive environment
5.3. Mathematics for damage calculations5.3.1. Linear damage accumulation; load spectrum on a histogram format; 5.3.2. Discussion of the validity of the linear damage accumulation; 5.3.3. Definition of the equivalent stress range; 5.3.4. Load spectrum on the format of a Weibull distribution; 5.4. S-N curves related to various stress definitions; 5.4.1. Nominal stress, geometrical stress and weld notch stresses; 5.4.2. Geometrical stresses in tubular joints; 5.4.3. Fatigue life estimate based on the weld notch stress approach; 5.4.4. Conclusions on the various stress approaches
5.5. Some comments on finite element analysis

Sommario/riassunto

Avoiding or controlling fatigue damage is a major issue in the design and inspection of welded structures subjected to dynamic loading. Life predictions are usually used for safe life analysis, i.e. for verifying that it is very unlikely that fatigue damage will occur during the target service life of a structure. Damage tolerance analysis is used for predicting the behavior of a fatigue crack and for planning of in-service scheduled inspections. It should be a high probability that any cracks appearing are detected and repaired before they become critical. In both safe life analysis and the

2. Record Nr.	UNINA9910765892903321
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Titolo	Wellbeing of transnational Muslim families : marriage, law and gender / / edited by Marja Tiilikainen, Mulki Al-Sharmani and Sanna Mustasaari
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ISBN	9781315231976 1315231972 9781351866668 1351866664 9781351866675 1351866672
Edizione	[1 ed.]
Descrizione fisica	1 online resource (207 pages)
Collana	Studies in Migration and Diaspora Series
Classificazione	SOC000000SOC026000SOC032000
Disciplina	306.85088297091821
Soggetti	Muslim families
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Sommario/riassunto	This book examines the needs, aspirations, strategies, and challenges of transnational Muslim migrants in Europe with regard to family practices such as marriage, divorce, and parenting. Critically re-conceptualizing 'wellbeing' and unpacking its multiple dimensions in the context of Muslim families, it investigates how migrants make sense of and draw on different norms, laws, and regimes of knowledge as they navigate different aspects of family relations and life in a transnational social space. With attention to issues such as registration of marriage, civil versus religious marriage, spousal roles and rights, polygamy, parenting, child wellbeing, and everyday security, the authors offer national and comparative case studies of Muslim families from different parts of the world, covering different family bonds and relations, within both extended and nuclear families. Based on empirical research in the Nordic region and further afield, this volume

affords a more complete understanding of the practices of transnational migrant families, as well as the processes through which family relations and rights are negotiated between family members and with state institutions and laws, whilst contributing to the growing literature on migrant wellbeing. As such, it will appeal to scholars of sociology and social policy with interests in migration and transnational communities, wellbeing, and the family.
