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Peterson's stress concentration factors / Walter D. Pilkey, Deborah F. Pilkey—3rd ed. p. cm. Includes index. ISBN 978-0-470-04824-5 (cloth) 1. Stress concentration. 2. Structural analysis (Engineering) I. Pilkey, Deborah F. II. PILKEY, DEBORAH F. III. Peterson, Rudolph Earl, 1901– Stress concentration factors. IV. Title. TA417.6.P43 2007 624.1 76—dc22

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Approximate Stress- Concentration Factor  $K_t$  for Bending of a Round Bar or Tube with a Transverse Round Hole Source:R. E. Peterson, Stress- Concentration Factors, Wiley, New York, 1974, pp. 146, 235. The nominal bending stress is  $\sigma_0 = M/Z$  where  $Z$  is a reduced value of the section modulus and is defined by

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The maximum stress is calculated as  $\sigma_{max} = K_t \sigma_{nom}$ , where  $K_t$  is the stress concentration factor as determined from the plot below, and  $\sigma_{nom}$  is calculated as: Cannot display plot -- browser is out of date.

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Unless otherwise specified, the stress concentration factor  $K_t$  is based on the smaller width or diameter,  $d$ . In tension (Fig. 3.2)  $K_t = c_r \max / \langle j \text{ nom}$ , where  $c_r \text{ nom} = P/hd$  for a thin flat element of thickness  $h$  and  $\langle r \text{ nom} = 4P/\pi r d^2$  for a circular bar. The fillet factors for tension and bending are based on photoelastic values.

The bible of stress concentration factors—updated to reflect today's advances in stress analysis This book establishes and maintains a system of data classification for all the applications of stress and strain analysis, and expedites their

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synthesis into CAD applications. Filled with all of the latest developments in stress and strain analysis, this Fourth Edition presents stress concentration factors both graphically and with formulas, and the illustrated index allows readers to identify structures and shapes of interest based on the geometry and loading of the location of a stress concentration factor. Peterson's Stress Concentration Factors, Fourth Edition includes a thorough introduction of the theory and methods for static and fatigue design, quantification of stress and strain, research on stress concentration factors for weld joints and composite materials, and a new introduction to the systematic stress analysis approach using Finite Element Analysis (FEA). From notches and grooves to shoulder fillets and holes, readers will learn everything they need to know about stress concentration in one single volume. Peterson's is the practitioner's go-to stress concentration factors reference. Includes completely revised introductory chapters on fundamentals of stress analysis; miscellaneous design elements; finite element analysis (FEA) for stress analysis. Features new research on stress concentration factors related to weld joints and composite materials. Takes a deep dive into the theory and methods for material characterization, quantification and analysis methods of stress and strain, and static and fatigue design. Peterson's Stress Concentration Factors is an excellent book for all mechanical, civil, and structural engineers, and for all engineering students and researchers.

Peterson's Stress Concentration Factors establishes and maintains a system of data classification for all of the applications of stress and strain analysis and expedites their synthesis into CAD applications. Substantially revised and completely updated, this book presents stress concentration factors both graphically and with formulas. It also employs

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computer-generated art in its portrayal of the various relationships between the stress factors affecting machines or structures. These charts provide a visual representation of the machine or structure under consideration as well as graphs of the various stress concentration factors at work. They can be easily accessed via an illustrated table of contents that permits identification based on the geometry and loading of the location of a factor. For the new third edition, new material will be added covering finite element analyses of stress concentrations, as well as effective computational design. The book explains how to optimize shape to circumvent stress concentration problems and how to achieve a well-balanced design of structures and machines that will result in reduced costs, lighter products, and improved performance.

The bible of stress concentration factors—updated to reflect today's advances in stress analysis This book establishes and maintains a system of data classification for all the applications of stress and strain analysis, and expedites their synthesis into CAD applications. Filled with all of the latest developments in stress and strain analysis, this Fourth Edition presents stress concentration factors both graphically and with formulas, and the illustrated index allows readers to identify structures and shapes of interest based on the geometry and loading of the location of a stress concentration factor. Peterson's Stress Concentration Factors, Fourth Edition includes a thorough introduction of the theory and methods for static and fatigue design, quantification of stress and strain, research on stress concentration factors for weld joints and composite materials, and a new introduction to the systematic stress analysis approach using Finite Element Analysis (FEA). From notches and grooves to shoulder fillets and holes, readers will learn everything they need to know about stress concentration in one single volume. Peterson's is



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the practitioner's go-to stress concentration factors reference Includes completely revised introductory chapters on fundamentals of stress analysis; miscellaneous design elements; finite element analysis (FEA) for stress analysis Features new research on stress concentration factors related to weld joints and composite materials Takes a deep dive into the theory and methods for material characterization, quantification and analysis methods of stress and strain, and static and fatigue design Peterson's Stress Concentration Factors is an excellent book for all mechanical, civil, and structural engineers, and for all engineering students and researchers.

Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly dented, may have slight color changes/slightly damaged spine.

The ultimate resource for designers, engineers, and analyst working with calculations of loads and stress.

Source of formulas for the analysis and design of structural members and mechanical elements. Coverage includes two-dimensional properties of a cross section of arbitrary shape, fundamentals of applied solid design mechanics (such as basic stress and strain), theories of failure, mechanical properties, and testing of materials through contact stresses and dynamic loading.

State-of-the-art coverage of modern computational methods for the analysis and design of beams Analysis and Design of Elastic Beams presents computer models and applications related to thin-walled beams such as those used in mechanical and aerospace designs, where thin, lightweight structures with high strength are needed. This book will

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enable readers to compute the cross-sectional properties of individual beams with arbitrary cross-sectional shapes, to apply a general-purpose computer analysis of a complete structure to determine the forces and moments in the individual members, and to use a unified approach for calculating the normal and shear stresses, as well as deflections, for those members' cross sections. In addition, this book augments a solid foundation in the basic structural design theory of beams by:

- \* Providing coverage of thin-wall structure analysis and optimization techniques
- \* Applying computer numerical methods to classical design methods
- \* Developing computational solutions for cross-sectional properties and stresses using finite element analyses

Including access to an associated Web site with software for the analysis and design of any cross-sectional shape, *Analysis and Design of Elastic Beams: Computational Methods* is an essential reference for mechanical, aerospace, and civil engineers and designers working in the automotive, ship, and aerospace industries in product and process design, machine design, structural design, and design optimization, as well as students and researchers in these areas.

A new chapter is devoted to finite element analyses of stress concentrations, as well as effective computational design. It explains how to optimize shape to circumvent stress concentration problems and how to achieve a well-balanced design of structures and machines that will result in reduced costs, lighter products, and improved performance.

Peterson's *Stress Concentration Factors* is an essential addition to the professional libraries of engineers and designers working in the automotive, aerospace, and nuclear industries; for civil and mechanical engineers; and for students and researchers in these fields.

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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 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 properties and predictions (Chapters 2–8) • Load spectra and fatigue under variable-amplitude loading (Chapters 9–11) • Fatigue tests and scatter (Chapters 12 and 13) • Special fatigue conditions (Chapters 14–17) • Fatigue of joints and structures (Chapters 18–20) • Fiber-metal laminates (Chapter 21) Each chapter presents a discussion of a specific subject.

This book commemorates the 75th birthday of Prof. George Jaiani – Georgia's leading expert on shell theory. He is also well known outside Georgia for his individual approach to shell theory research and as an organizer of meetings, conferences and schools in the field. The collection of papers presented includes articles by scientists from various countries discussing the state of the art and new trends in the theory of shells, plates, and beams. Chapter 20 is available

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