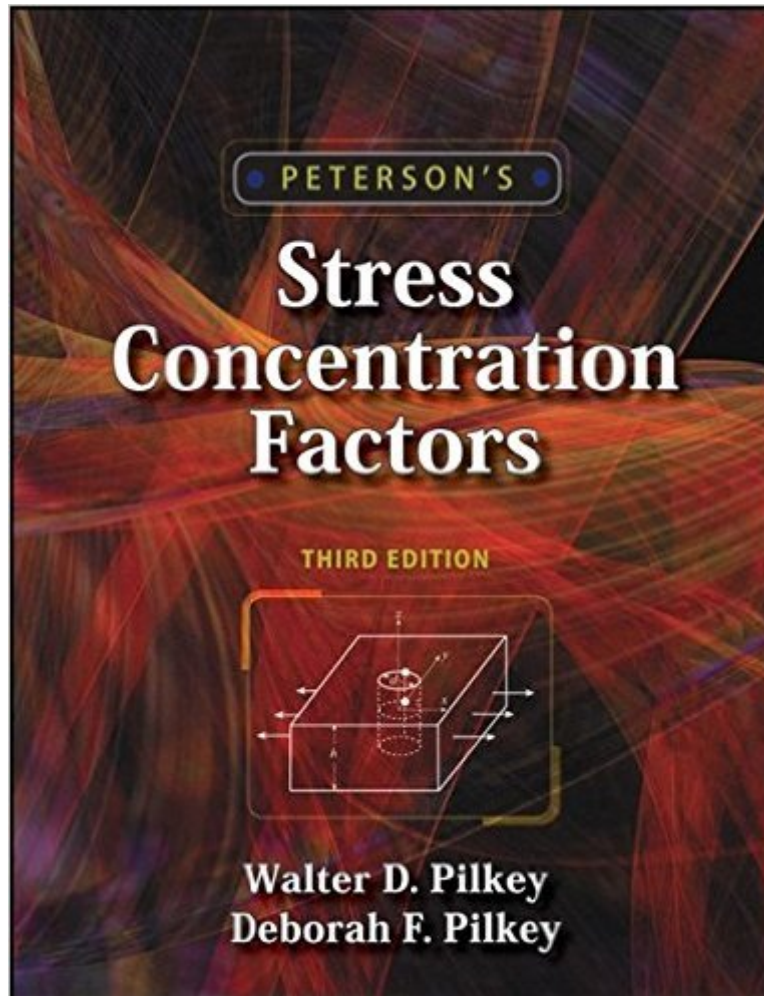




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Peterson's Stress Concentration Factors



Synopsis

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 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.

Book Information

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Customer Reviews

The definitive book of stress concentration factors...updated from Peterson's original edition. This is the ultimate source for aerospace engineers dealing with design and analysis. Other engineering disciplines should find it equally useful. The book is more compact, yet thicker than the original but the the figures are very clear and readable. Explanations appear much the same.

Absolutely essential book for anybody interested in stresses in notched bodies; structural analysts who like to use the 'back of the envelope', finite element analysts, fracture mechanicians; designers in aerospace, rail, heavy machinery, light machinery, medical devices, almost anything you can name. Book has been updated from the original; even if you have the original edition, this 2nd edition is well worth having for your engineering reference library.

I have access to Peterson's original book (older than me?) and to the first edition of this one, published in 1974. I recommend buying used copies of the old ones. They contain the same info and are easier to use since the charts are bigger.

This is an excellent book. I found the book to be extremely informative and thoughtfully written. I recommend this book for anyone that is interested in applications of stress and strain analysis.

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