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A topological crystal in, for example, three dimensions is a real-space assembly of finite-sized pieces of topological states ... arbitrarily choosing one 3-cell to correspond to the identity element, ...

The design of mechanical components for various engineering applications requires the understanding of stress distribution in the materials. The need of determining the nature of stress distribution on the components can be achieved with experimental techniques. Applications and Techniques for Experimental Stress Analysis is a timely research publication that examines how experimental stress analysis supports the development and validation of analytical and numerical models, the progress of phenomenological concepts, the measurement and control of system parameters under working

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conditions, and identification of sources of failure or malfunction. Highlighting a range of topics such as deformation, strain measurement, and element analysis, this book is essential for mechanical engineers, civil engineers, designers, aerospace engineers, researchers, industry professionals, academicians, and students.

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of mechanical products. This volume will be of interest to researchers, policy makers, and practicing engineers alike.

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This work on structural stability has been written primarily as a textbook to provide a clear understanding of theoretical stability behaviour. It will give readers a basic understanding of the design specifications developed by, for example, AISC, and implemented in building codes by IBC.

This unique volume celebrates the five decades of the impact of Anderson localization on modern physics. In addition to the historical perspective on its origin, it provides a comprehensive description of the experimental and theoretical aspects of Anderson localization.

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Machining is one of the most important manufacturing processes. Parts manufactured by other processes often require further operations before the product is ready for application. [Machining: Fundamentals and Recent Advances] is divided into two parts. Part I explains the fundamentals of machining, with special emphasis on three important aspects: mechanics of machining, tools, and work-piece integrity. Part II is dedicated to recent advances in machining, including: machining of hard materials, machining of metal matrix composites, drilling polymeric matrix composites, ecological machining (minimal quantity of lubrication), high-speed machining (sculptured surfaces), grinding technology and new grinding wheels, micro- and nano-machining, non-traditional machining processes, and intelligent machining (computational methods and optimization). Advanced students, researchers and professionals interested or involved in modern manufacturing engineering will find the book a useful reference.

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