

A jack is a mechanical device used as a lifting device to lift heavy loads or apply great forces. Jacks employ a screw thread or hydraulic cylinder to apply linear forces. A scissor jack is a device constructed with a cross-hatch mechanism, much like a scissor. A commercially available scissor jack is shown in Figure 1.



Figure 1: Scissor Jack

Operation

A scissor jack is operated simply by turning a small crank that is inserted into one end of the scissor jack. This crank is usually "Z" shaped. The end fits into a ring hole mounted on the end of the screw, which is the object of force on the scissor jack. When this crank is turned, the screw turns, and this raises the jack. The screw acts like a gear mechanism. It has teeth (the screw thread), which turn and move the two arms, producing work. Just by turning this screw thread, the scissor jack can lift a vehicle that is several thousand pounds.

1.1 Force and Stress Analysis

The force analysis is based on the assumption that the scissor jack is loaded vertically symmetrical.

Scissor Jack Stress Analysis

AN Whitehead



Scissor Jack Stress Analysis:

Proceedings of the Society for Experimental Stress Analysis Society for Experimental Stress Analysis, 1978 Vol 1 no 1 contains Proceedings of the 17th or the last Eastern Photoelasticity Conference Machine and Industrial Design in Mechanical Engineering Milan Rackov, Aleksandar Miltenović, Milan Banić, 2025-01-01 This book gathers the latest advances innovations and applications in the field of machine science and mechanical engineering as presented by international researchers and engineers at the 12th International Conference on Machine and Industrial Design in Mechanical Engineering KOD held in Balatonfüred Hungary on May 23-26 2024 It covers topics such as mechanical and graphical engineering industrial design and shaping product development and management complexity and system design The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations **Solid Modeling and Applications** Dugan Um, 2018-03-20

This updated second edition provides readers with an expanded treatment of the FEM as well as new information on recent trends in rapid prototyping technology The new edition features more descriptions exercises and questions within each chapter In addition more in depth surface theory has been introduced in section four with particular emphasis in surface theory Promising cutting edge technologies in the area of rapid prototyping are introduced in section seven MATLAB based FEM analysis has been added in section eight and development of the plan stress and plane strain stiffness equations are introduced as a new chapter Revised and updated based on student feedback **Solid Modeling and Applications** Rapid Prototyping CAD and CAE Theory is ideal for university students in various engineering disciplines as well as design engineers involved in product design analysis and validation It equips them with an understanding of the theory and essentials and also with practical skills needed to apply this understanding in real world design and manufacturing settings

Performance of Seismic Isolation Hardware Under Service and Seismic Loading Michalakis C. Constantinou, 2007

Progress in Engineering Technology V Muhamad Husaini Abu Bakar, Tajul Adli bin Abdul Razak, Andreas Öchsner, 2023-05-27 The book contains a selection of peer reviewed papers from the 2022 conferences which took place at the Universiti Kuala Lumpur Malaysian Spanish Institute UniKL MSI Kedah Malaysia This book contains twenty two papers written by researchers participating in the conferences Topics covered in this book include composite materials thermodynamics vibration dynamics of structures manufacturing processes computer aided manufacturing CFD analysis design and optimization of devices and procedures The topics are commonly encountered in industries and become an interest in the academic world The learning of engineering technology s curricular across universities is now an essential topic covered in various higher learning institutions Therefore it is hoped that this book serves as an excellent reference for researchers and graduate students working with on multidisciplinary engineering technology **Nuclear Energy**, 1984

Wind Energy Engineering Trevor Letcher, 2023-05-08 **Wind Energy Engineering** A Handbook for Onshore and Offshore

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Proceedings of the First World Congress of Structural and Multidisciplinary Optimization Niels Olhoff, G. I. N. Rozvany, 1995 Hardbound The First World Congress of Structural and Multidisciplinary Optimization WCSMO 1 was held in Goslar Lower Saxony Germany from 28 May to 2 June 1995 Its aim was to bring together at a single international meeting researchers and practitioners in the field of structural optimization This aim was met and these proceedings contain contributed papers presented at WCSMO 1 demonstrating the strong activity recent advances and increasing importance of the field of optimum design The book facilitates overview and easy access to these papers by categorizing them under 26 topics of modern optimization and by providing author and keyword indices *Journal of the Geotechnical Engineering Division* American Society of Civil Engineers. Geotechnical Engineering Division, 1981

Dissertation Abstracts International, 2005 *Thomas Register of American Manufacturers*, 2003 Vols for 1970 71 includes manufacturers catalogs **Timber Framing**, 2003 **Oceanic Abstracts with Indexes**, 1979 *Journal of Physical Oceanography*, 2005 Mathematical Reviews, 1965 Government Reports Annual Index, 1994 Petroleum Abstracts, 1980 **NASA SP.**, 1988 **Monthly Catalog of United States Government Publications**, 1988

Aeronautical Engineering, 1989 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA

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