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Exact constraint has a well-developed theory applicable for design engineers. Applying it improves designs by avoiding over-constraint. Over-constrained designs lead to high stresses, tight tolerances, looseness, binding, and difficult assembly. Exact constraint is easier to picture in two dimensions than in three.

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Chapter 6 Practical Exact-Constraint Design 180 6.1.3.1 Touch Trigger Probe Touch trigger probes are commonly used on coordinate measuring machines to indicate precisely where in the travel of the machine axes that contact is made with the workpiece.

~~6 Practical Exact-Constraint Design~~

A central technique is constraint pattern analysis, which enables you to visualize the constraints and degrees of freedom of mechanical connection as patterns of lines in space. Understanding these principles, collectively called exact constraint design principles, can lead you to unobvious solutions to design problems, as well as designing for lower cost and higher performance.

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Mechanical Design Fundamentals K. Craig 59. • General Comments – Of primary concern is the certainty of the measurements themselves used to characterize the accuracy, precision, and resolution of a machine, and what parameters these measurements themselves are functions of.

~~Fundamental Principles of Mechanical Design~~

2.6 Exact-Constraint Design This is a very powerful and comprehensive statement that uses explicitly the representation of translations as rotational axes located at infinity. It is a generalization of the instant center and is valuable as a visual aid to understanding a mechanism or in synthesizing the system of constraints for a new mechanism.

~~Hale, Layton C. Principles and techniques for desiging ...~~

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This book is a casual but thorough introduction to the design of machines using the method of exact constraint. This methodology invites us to carefully assess how parts connect and move relative...

Exact Constraint: Machine Design Using Kinematic Principles gives you a unique and powerful set of rules and techniques to facilitate the design of any type or size of machine. You learn the kinematic design techniques known as constraint pattern analysis. This method, widely used by designers of precision instruments, enables you to visualize the constraints and degrees of freedom of a mechanical connection as patterns of lines in space. By recognizing these line patterns (found in all types of machinery), you will better understand the way a machine will work - or will not work - in an entirely new domain.

This book is a comprehensive engineering exploration of all the aspects of precision machine design—both component and system design considerations for precision machines. It addresses both theoretical analysis and practical implementation providing many real-world design case studies as well as numerous examples of existing components and their characteristics. Fast becoming a classic, this book includes examples of analysis techniques, along with the philosophy of the solution method. It explores the physics of errors in machines and how such knowledge can be used to build an error budget for a machine, how error budgets can be used to design more accurate machines.

This new volume presents principles, rules, guidelines, and tips that are useful in designing mechanical parts and assemblies. It includes examples of real world, practical ideas that come from successful design experience and which result in superior mechanical design. Special Features: focuses on mechanical design at the detail level; examines high-level principles that have general significance for all mechanical design; describes in depth the basic design practices that will improve the strength, robustness, function, user handling, and manufacturability of parts and assemblies; presents guidelines for electing plastic rubber, and metal materials; includes useful tips for selecting and designing components, such as bolts, nuts, screws, springs, and adhesive joints.

A concise survey of compliant mechanisms-from fundamentals to state-of-the-art applications This volume presents the newest and most effective methods for the analysis and design of compliant mechanisms. It provides a detailed review of compliant mechanisms and includes a wealth of useful design examples for engineers, students, and researchers. Concise chapters guide the reader from simple to more challenging concepts-using examples of increasing complexity-eventually leading to real-world applications for specific types of devices. The author focuses on compliant mechanisms that can be designed using both standard linear beam equations and more advanced pseudo-rigid-body models. He describes a number of special-purpose compliant mechanisms that have use across a wide range of applications and discusses compliant mechanisms in microelectromechanical systems (MEMS) with several accompanying MEMS examples. Coverage of essential topics in strength of materials, machine design, and kinematics is provided to allow for a self-contained book that requires little additional reference to solve compliant mechanism problems. This information can be used as a refresher on the basics or as resource material for readers from other disciplines currently working in MEMS. Compliant Mechanisms serves as both an introductory text for students and an up-to-date resource for practitioners and researchers. It provides comprehensive, expert coverage of this growing field.

This book presents some basic flexure geometries and the analytic models, which can be assessed for specific design applications. The author then goes beyond this fundamental explanation to explore more sophisticated issues. Specifically, the text discusses integration of these flexure geometries and analytic models to produce useful mechanisms for precise motion control with fast dynamic response. This book will be useful for advanced undergraduate and graduate students, particularly those who hope to acquire competence in experimental and mechanical sciences. Practicing engineers and other scientists currently working in related fields will also benefit from Flexure.

Every so often, a reference book appears that stands apart from all others, destined to become the definitive work in its field. The Vibration and Shock Handbook is just such a reference. From its ambitious scope to its impressive list of contributors, this handbook delivers all of the techniques, tools, instrumentation, and data needed to model, analyze, monitor, modify, and control vibration, shock, noise, and acoustics. Providing convenient, thorough, up-to-date, and authoritative coverage, the editor summarizes important and complex concepts and results into “snapshot” windows to make quick access to this critical information even easier. The Handbook’s nine sections encompass: fundamentals and analytical techniques; computer techniques, tools, and signal analysis; shock and vibration methodologies; instrumentation and testing; vibration suppression, damping, and control; monitoring and diagnosis; seismic vibration and related regulatory issues; system design, application, and control implementation; and acoustics and noise suppression. The book also features an extensive glossary and convenient cross-referencing, plus references at the end of each chapter. Brimming with illustrations, equations, examples, and case studies, the Vibration and Shock Handbook is the most extensive, practical, and comprehensive reference in the field. It is a must-have for anyone, beginner or expert, who is serious about investigating and controlling vibration and acoustics.

Rapid increases in energy consumption and emphasis on environmental protection have posed challenges for the motor industry, as has the design and manufacture of highly efficient, reliable, cost-effective, energy-saving, quiet, precisely controlled, and long-lasting electric motors.Suitable for motor designers, engineers, and manufacturers, as well

From one of the authors of The Unwritten Laws of Engineering and The Unwritten Laws of Business, this concise and readable book is an excellent primer or refresher for any professional interested in the basic principles and practices of good mechanical design. In this handy and unique volume the author uses his own experience, along with input from other expert designers, to explicitly state design principles and practices. Readers will not have to discover these principles on their own and will be able to apply these fundamental concepts throughout their designs.

The volume contains 19 contributions by international experts in the field of multibody system dynamics, robotics and control. The book aims to bridge the gap between the modeling of mechanical systems by means of multibody dynamics formulations and robotics. In the classical approach, a multibody dynamics model contains a very high level of detail, however, the application of such models to robotics or control is usually limited. The papers aim to connect the different scientific communities in multibody dynamics, robotics and control. Main topics are flexible multibody systems, humanoid robots, elastic robots, nonlinear control, optimal path planning, and identification.