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Some basic aspects of the new BOLE motor design draw on technology development that Northrop Grumman was working on as a part of the

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Omega launch vehicle program. Northrop Grumman received an Air ...

NASA, Northrop Grumman designing new BOLE SRB for SLS Block 2 vehicle

Design and fabrication of vertical cavity surface emitting lasers (VCSELs) requires an iterative process, which is extremely expensive and time-consuming. The use of computer-aided design ... is ...

Chapter 4.2.2 - Modeling of Self- and Cross-Gain Saturation Coefficients

Different chirality of the axial methionine in homologous cytochromes c determined ... and Wüthrich, K. ((1989) in Computer-Aided Molecular Design, (W.G. Richards, ed.) pp. 197-201, IBC Technical ...

References 1980 - 1989

Strain, stress, and deflection data were compared with the results of three finite-element structural analysis computer programs and with design data. The test program data were used to evaluate the ...

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The application of state-of-the-art skills, a sound understanding of engineering principles, concepts of sustainability and resilience in design, the ability to communicate ... cyclic triaxial testing ...

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Previous SURF mentoring: Rain Blankenship (2020) "Preliminary Characterizations of Aeolian Dust ... Recent work comparing results from computer simulations with global reconstruction of the ...

2021 SURF Research Projects - Descriptions

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The application of state-of-the-art skills, a sound understanding of engineering principles, concepts of sustainability and resilience in design, the ability to communicate ... cyclic triaxial testing ...

The program method is based on a mean-diameter flow analysis. Input design requirements include power or pressure ratio, flow, temperature, pressure, and speed. Turbine designs are generated for any specified number of stages and for any of three types of velocity diagrams (symmetrical, zero exit swirl, or impulse). Exit turning vanes can be included in the design. Program output includes inlet and exit annulus dimensions, exit temperature and pressure, total and static efficiencies, blading angles, and last-stage critical velocity ratios. The report presents the analysis method, a description of input and output with sample cases, and the program listing.

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The second edition of a comprehensive textbook that introduces turbomachinery and gas turbines through design methods and examples. This comprehensive textbook is unique in its design-focused approach to turbomachinery and gas turbines. It offers students and practicing engineers methods for configuring these machines to perform with the highest possible efficiency. Examples and problems are based on the actual design of turbomachinery and turbines. After an introductory chapter that outlines the goals of the book and provides definitions of terms and parts, the book offers a brief review of the basic principles of thermodynamics and efficiency definitions. The rest of the book is devoted to the analysis and design of real turbomachinery configurations and gas turbines, based on a consistent application of thermodynamic theory and a more empirical treatment of fluid dynamics that relies on the extensive use of design charts. Topics include turbine power cycles, diffusion and diffusers, the analysis and design of three-dimensional free-stream flow, and combustion systems and combustion calculations. The second edition updates every chapter, adding material on subjects that include flow correlations, energy transfer in turbomachines, and three-dimensional design. A solutions manual is available for instructors. This new MIT Press edition makes a popular text available again, with corrections and some updates, to a wide audience of students, professors, and professionals.

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Although first published nearly thirty years ago, this book remains up-to-date, intellectually stimulating and realistic. Unlike most texts in the field, it relates design closely to the science and mathematics that are students' chief concern, and shows their relevance. It shows how to make simple but illuminating calculations, and how to achieve the insight and the invention that often result from them. Covering design principles in depth, this is, and remains, an original book: although some of the ideas which were novel in 1971 are now widely accepted, others remain new.

Construction Details From Architectural Graphic Standards Eighth Edition Edited by James Ambrose A concise reference tool for the professional involved in the production of details for building construction, this abridgement of the classic Architectural Graphic Standards provides indispensable guidance on standardizing detail work, without having to create the needed details from scratch. An ideal "how to" manual for the working draftsman, this convenient, portable edition covers general planning and design data, sitework, concrete, masonry, metals, wood, doors and windows, finishes, specialties, equipment, furnishings, special construction, energy design, historic preservation, and more. Construction Details also

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includes extensive references to additional information as well as AGS's hallmark illustrations. 1991 (0 471-54899-5) 408 pp.

Fundamentals of Building Construction Materials And Methods Second Edition Edward Allen "A thoughtful overview of the entire construction industry, from homes to skyscrapers...there's plenty here for the aspiring tradesperson or anyone else who's fascinated by the art of building." -Fine Homebuilding Beginning with the materials of the ancients—wood, stone, and brick—this important work is a guide to the structural systems that have made these and more contemporary building materials the irreplaceable basics of modern architecture. Detailing the structural systems most widely used today—heavy timber framing, wood platform framing, masonry loadbearing wall, structural steel framing, and concrete framing systems—the book describes each system's historical development, how the major material is obtained and processed, tools and working methods, as well as each system's relative merits. Designed as a primer to building basics, the book features a list of key terms and concepts, review questions and exercises, as well as hundreds of drawings and photographs, illustrating the materials and methods described. 1990 (0 471-50911-6) 803 pp. Mechanical and Electrical Equipment for Buildings Eighth Edition Benjamin Stein and John S. Reynolds "The book is packed with useful information and has been the architect's standard for fifty

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years." -Electrical Engineering and Electronics on the seventh edition More up to date than ever, this reference classic provides valuable insights on the new imperatives for building design today. The Eighth Edition details the impact of computers, data processing, and telecommunications on building system design; the effects of new, stringent energy codes on building systems; and computer calculation techniques as applied to daylighting and electric lighting design. As did earlier editions, the book provides the basic theory and design guidelines for both systems and equipment, in everything from heating and cooling, water and waste, fire and fire protection systems, lighting and electrical wiring, plumbing, elevators and escalators, acoustics, and more. Thoroughly illustrated, the book is a basic primer on making comfort and resource efficiency integral to the design standard. 1991 (0 471-52502-2) 1,664 pp.

In this book, the author has presented an introduction to the practical application of some of the essential technical topics related to computer-aided engineering (CAE). These topics include

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interactive computer graphics (ICG), computer-aided design (CAD), computer and computer-integrated manufacturing (CIM). aided analysis (CAA) Unlike the few texts available, the present work attempts to bring all these seemingly specialised topics together and to demonstrate their integration in the design process through practical applications to real engineering problems and case studies. This book is the result of the author's research and teaching activities for several years of postgraduate and undergraduate courses in mechanical design of rotating machinery, computer-aided engineering, of finite elements, solid mechanics, engineering practical applications and properties of materials at Cranfield Institute of dynamics Technology, Oxford Engineering Science and the University of Manchester Institute of Science and Technology (UMIST). It was soon realised that no books on the most powerful and versatile tools available to engineering designers existed. To satisfy this developing need, this book, on the use of computers to aid the design process and to integrate design, analysis and manufacture, was prepared.