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i e chemistry burning detonation shock waves initiation theories scaling the book is written for upper division undergraduate or graduate level scientists and engineers and assumes a good grasp of basic physics chemistry mechanics and mathematic through calculus it is based on lecture notes used for graduate courses at the dept of energy laboratories and could serve as a core text for a course at schools of mining or military engineering the intent of the book is to provide the engineer or scientist in the field with an understanding of the phenomena involved and the engineering tools needed to solve design analyze a broad range of real problems cooper demonstrates how the lure of the open air from rooftop schoolrooms to open air theaters to the front porch challenged air conditioning americans were slow to give up the social rituals of hot weather living the cold drink the cool clothes the summer vacation for the comforts of either the window air conditioner or the central system this text presents the basic technologies used in the engineering of explosives and explosive systems i e chemistry burning detonation shock waves initiation theories scaling the book is written for upper division undergraduate or graduate level scientists and engineers and assumes a good grasp of basic physics chemistry mechanics and mathematic through calculus it is based on lecture notes used for graduate courses at the dept of energy laboratories and could serve as a core text for a course at schools of mining or military engineering the intent of the book is to provide the engineer or scientist in the field with an understanding of the phenomena involved and the engineering tools needed to solve design analyze a broad range of real problems digital theology is an emerging and evolving field of research in academia it is gaining traction with scholars across a variety of subjects including computer science theology sociology of religion and the wider humanities based on the popular artech house classic digital communication systems engineering with software defined radio this book provides a practical approach to quickly learning the software defined radio sdr concepts needed for work in the field this up to date volume guides readers on how to quickly prototype wireless designs using sdr for real world testing and experimentation this book explores advanced wireless

communication techniques such as ofdm lte wla and hardware targeting readers will gain an understanding of the core concepts behind wireless hardware such as the radio frequency front end analog to digital and digital to analog converters as well as various processing technologies moreover this volume includes chapters on timing estimation matched filtering frame synchronization message decoding and source coding the orthogonal frequency division multiplexing is explained and details about hdl code generation and deployment are provided the book concludes with coverage of the wlan toolbox with ofdm beacon reception and the lte toolbox with downlink reception multiple case studies are provided throughout the book both matlab and simulink source code are included to assist readers with their projects in the field announcements for the following year included in some vols the purpose of this book is to provide engineers and researchers in both the wind power industry and energy research community with comprehensive up to date and advanced design techniques and practical approaches the topics addressed in this book involve the major concerns in the wind power generation and wind turbine design nearly every aspect of daily life in the mediterranean world and europe during the florescence of the greek and roman cultures is relevant to the topics of engineering and technology this volume highlights both the accomplishments of the ancient societies and the remaining research problems and stimulates further progress in the history of ancient technology the subject matter of the book is the technological framework of the greek and roman cultures from ca 800 b c through ca a d 500 in the circum mediterranean world and northern europe each chapter discusses a technology or family of technologies from an analytical rather than descriptive point of view providing a critical summation of our present knowledge of the greek and roman accomplishments in the technology concerned and the evolution of their technical capabilities over the chronological period each presentation reviews the issues and recent contributions and defines the capacities and accomplishments of the technology in the context of the society that used it the available technological shelf and the resources consumed these studies introduce and synthesize the

results of excavation or specialized studies the chapters are organized in sections progressing from sources written and representational to primary e g mining metallurgy agriculture and secondary e g woodworking glass production food preparation textile production and leather working production to technologies of social organization and interaction e g roads bridges ships harbors warfare and fortification and finally to studies of general social issues e g writing timekeeping measurement scientific instruments attitudes toward technology and innovation and the relevance of ethnographic methods to the study of classical technology the unrivalled breadth and depth of this volume make it the definitive reference work for students and academics across the spectrum of classical studies rely on the 1 guide to pump design and application now updated with the latest technological breakthroughs long established as the leading guide to pump design and application the pump handbook has been fully revised and updated with the latest developments in pump technology packed with 1 150 detailed illustrations and written by a team of over 100 internationally renowned pump experts this vital tool shows you how to select purchase install operate maintain and troubleshoot cutting edge pumps for all types of uses the fourth edition of the pump handbook features state of the art guidance on every aspect of pump theory design application and technology over 100 internationally renowned contributors si units used throughout the book new sections on centrifugal pump mechanical performance flow analysis bearings adjustable speed drives and application to cryogenic lng services completely revised sections on pump theory mechanical seals intakes and suction piping gears and waterhammer application to pulp and paper mills inside this updated guide to pump technology classification and selection of pumps centrifugal pumps displacement pumps solids pumping pump sealing pump bearings jet pumps materials of construction pump drivers and power transmission pump noise pump systems pump services intakes and suction piping selecting and purchasing pumps installation operation and maintenance pump testing technical data introduction to the technology of explosives paul w cooper and stanley r kurowski

introduction to the technology of explosives is a clear and concise survey of the technologies and physical processes involved in explosive phenomena the book is intended to provide the worker new to the field with sufficient background to understand problems that may arise and to interact intelligently with specialists in the field the book covers the fundamentals of the chemistry of explosives the mechanics of burning sound shock and detonation initiation and initiators scaling in design and analysis and off the shelf explosive devices it provides the basic calculational skills needed to solve simple first order engineering design problems and emphasizes the crucial importance of safety considerations the book contains a broad range of data on explosive materials and their properties and behavior along with extensive lists of useful references example problems with solutions are provided in each technical area as are descriptions and analysis of a wide variety of explosive devices the book concludes with a thorough and comprehensive description of regulatory requirements for the classification transportation and storage of explosives and an extensive guide to explosives safety in plant and test facilities this book will be of interest to explosives technicians and engineers government regulators crime and accident scene investigators and instructors in military police and fbi bomb schools engineers often find themselves tasked with the difficult challenge of developing a design that is both technically and economically feasible a sharply focused how to book engineering economics and economic design for process engineers provides the tools and methods to resolve design and economic issues it helps you integrate technical and economic decision making creating more profit and growth for your organization the book puts methods that are simple fast and inexpensive within easy reach author thane brown sets the stage by explaining the engineer's role in the creation of economically feasible projects he discusses the basic economics of projects how they are funded what kinds of investments they require how revenues expenses profits and risks are interrelated and how cash flows into and out of a company in the engineering economics section of the book brown covers topics such as present and future values annuities interest rates inflation and inflation indices he

details how to create order of magnitude and study grade estimates for the investments in a project and how to make study grade production cost estimates against this backdrop brown explores a unique scheme for producing an economic design he demonstrates how using the economic design model brings increased economic thinking and rigor into the early parts of design the time in a project's life when its cost structure is being set and when the engineer's impact on profit is greatest the model emphasizes three powerful new tools that help you create a comprehensive design option list when the model is used early in a project it can drastically lower both capital and production costs the book's uniquely industrial focus presents topics as they would happen in a real work situation it shows you how to combine technical and economic decision making to create economically optimum designs and increase your impact on profit and growth and therefore your importance to your organization using these time tested techniques you can design processes that cost less to build and operate and improve your company's profit proceedings of the 20th annual conference for the australasian association for engineering education held at the university of adelaide in december 2009 papers were presented by australian and international delegates the conference was focused on the engineering curriculum in higher education this richly illustrated book combines explanation of the scientific base underpinning vital pulp treatment with description of current and emerging trends in clinical practice it guides the reader through modern views on pulp diagnostics deep caries and pulp exposure management leading to an analysis of the biological aspects of regenerative techniques such as angiogenesis neurogenesis inflammation and epigenetics in the later chapters practical considerations relating to bioengineering biomaterial choice revitalization and stem cell based procedures are discussed and their likely therapeutic impact considered aimed at dental students postgraduates and research minded dental practitioners this translational book summarizes state of the art scientific knowledge on dentin pulp interactions and regenerative endodontics while highlighting the opportunities to incorporate recent developments into everyday practice readers will also find extensive discussion of

potential future developments and research avenues relating to each aspect of this exciting and rapidly developing field digital theology is an emerging and evolving field of research in academia it is gaining traction with scholars across a variety of subjects including computer science theology sociology of religion and the wider humanities pumping station design 3e is an essential reference for all professionals from the expert city engineer to the new design officer this book assists those who need to apply the fundamentals of various disciplines and subjects in order to produce a well integrated pumping station that is reliable easy to operate and maintain and free from design mistakes the depth of experience and expertise of the authors contributors and peers reviewing the content as well as the breadth of information in this book is unparalleled making this the only book of its kind an award winning reference work that has become the standard in the field dispenses expert information on how to produce a well integrated pumping station that will be reliable easy to operate and maintain and free from design mistakes 60 of the material has been updated to reflect current standards and changes in practice since the book was last published in 1998 new material added to this edition includes the latest design information the use of computers for pump selection extensive references to hydraulic institute standards and much more new pop up paper projects is an inspirational book for everyone who wants to learn and share the magic of pop up paper engineering illustrated throughout with colour diagrams and photographs this book guides you through basic techniques and foundation skills offers advice on classroom planning and health and safety and shows you how to ensure that learners of all ages can develop and progress their skills guiding you through 90 180 and 360 degree engineering this book presents step by step instructions and ideas for over 200 cross curricular themes from cityscapes to magical creatures aiming to challenge and inspire paul johnson uses over 150 paper engineering techniques including storybooks pop ups without folds zigzag pop ups pulleys wheels and levers asymmetrical pop ups intricate toy theatres diagonal pop ups with movables this book brimming with pop up techniques and how to teach them is for everyone from the self

styled visually illiterate to the art graduate from parents keeping creativity alive at home to classroom teachers planning an engaging curriculum for their class of 30 plus pupils this book deals with issues related to the efficient utilization of available energy in industrial sites it also provides a recipe for minimizing the global warming potential gwp and reducing the impact of ozone depletion potential odp on nature and presents a variety of insights into thermodynamics heat transfer and energy management for teaching purposes the book will assist beginner and senior engineers to deal with energy issues from a more global perspective one of the most complex global challenges is improving wellbeing and developing strategies for promoting health or preventing illbeing of the population the role of designers in indirectly supporting the promotion of healthy lifestyles or in their contribution to illbeing has emerged this means designers now need to consider both morally and ethically how they can ensure that they do no harm and that they might deliberately decide to promote healthy lifestyles and therefore prevent ill health design for health illustrates the history of the development of design for health the various design disciplines and domains to which design has contributed through 26 case studies presented in this book the authors reveal a plethora of design research methodologies and research methods employed in design for health the editors also present following a thematic analysis of the book chapters seven challenges and seven areas of opportunity that designers are called upon to address within the context of healthcare furthermore five emergent trends in design in healthcare are presented and discussed this book will be of interest to students of design as well as designers and those working to improve the quality of healthcare the one and only book available that emphasizes the practical care of the head injured patient a superior reference for neurosurgeons and a must have for trauma and emergency physicians new to this edition chapters on prevention and management of seizures anesthetic considerations nutrition and more

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