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The National Power Systems Conference (NPSC) has been India's premier conference in the area of power engineering since 1981. It is a biennial conference providing a platform for researchers and engineers from Academia, Industry and Utility to exchange their ideas, and experiences. The event is an excellent opportunity for fostering academic and industrial collaborations. The 20th National Power Systems Conference NPSC 2018 will be organized by the Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli, Tamilnadu, India during 14th-16th December 2018. With the theme of 'Towards a sustainable energy future through efficient, smart and green technologies', NPSC 2018 is anticipated to be an engaging journey to bring out new perceptions in the realm of state of art in power engineering for a sustainable energy future. The conference will feature various plenary tasks, panel discussions on state of art in power system technologies.

Strong economic performance across the Middle East and Central Asia is examined against the background of high prices for energy and other commodities. Common economic trends are presented, while prospects and policies are reviewed for the coming year in light of the global economic environment. This latest REO includes boxes treating specific regional topics, such as financial sector reforms and integration in Maghreb countries; economic developments in oil-exporting countries in response to changes in petroleum prices; and the growth boom in the Caucasus and Central Asia.

Simulation of Battery Systems: Fundamentals and Applications covers both the fundamental and technical aspects of battery systems. It is a solid reference on the simulation of battery dynamics based on fundamental governing equations of porous electrodes. Sections cover the fundamentals of electrochemistry and how to obtain electrochemical governing equations for porous electrodes, the governing equations and physical characteristics of lead-acid batteries, the physical characteristics of zinc-silver oxide batteries, experimental tests and parameters necessary for simulation and validation of battery dynamics, and an environmental impact and techno-economic assessment of battery systems for different applications, such as electric vehicles and battery energy storage. The book contains introductory information, with most chapters requiring a solid background in engineering or applied science. Battery industrial companies who want to improve their industrial batteries will also find this book useful. Includes carefully selected in-text problems, case studies and illustrative examples. Features representative chapter-end problems, along with practical systems and applications. Covers various numerical methods, including those based on CFD and optimization, also including free codes and databases.

Practical Power System and Protective Relays Commissioning is a unique collection of the most important developments in the field of power system setup. It includes simple explanations and cost affordable models for operating engineers. The book explains the theory of power system components in a simple, clear method that also shows how to apply different commissioning tests for different protective relays. The book discusses scheduling for substation commissioning and how to manage available resources to efficiently complete projects on budget and with optimal use of resources. Explains the theory of power system components and how to set the different types of relays. Discusses the time schedule for substation commissioning and how to manage available resources and cost implications. Details worked examples and illustrates best practices.

How do you find true love? Even in today's downturn, love is recession-proof. This modern-day woman's perspective invites you to experience vicariously the unconditional, perfect and true love that walks through the new millennium book of Psalms. Using her life as the backdrop, she shares her secret to having healthy love relationships and chronicles her intimate pathway in poems such as: [Worthy [A Deeper Love [Sister Circle [A Woman's 23rd Psalm [Juicy Woman. This new era book of poetry traces the author's journey from heartache to healing inviting you to come along. It promises to have you smiling, crying, cheering and falling in love. Advance praises for Psalms from a Woman's Heart "Soul-stirring, heart-opening, uplifting, encouraging . . . More than rhyme and right on time, for the times we're in, for the journey ahead and for our spirits to be rightly fed." - Debrena Jackson Gandy, best-selling author of All the Joy You Can Stand "A deep, reflective and uplifting poetry devotional for today's woman; use it as a source for personal inspiration, public reading, sharing with a friend or for a special occasion . . . it's a sanctuary in a book." Dawnn Mitchell, author, poet, filmmaker of Striking Deborah. Deborah Oresegun is a certified life coach, writer, speaker and poet. She is a modern-day prophetess who advocates spiritual principles of empowerment such as the message of self-love found in her poetic memoir, Psalms from a Woman's Heart. Deborah is the founder of Daughters of the Father, a faith-based rites of passage sisterhood for women and girls to promote the celebration of womanhood. She is an entrepreneur and president of The Palm of Deborah Enterprises. Deborah lives in Atlanta, Georgia with her husband and three children.

This volume examines important experimental techniques needed to characterise inorganic materials in order to elucidate their properties for practical application. Addressing methods that examine the structures and properties of materials over lengthscales ranging from local atomic order to long-range order on the meso- and macro-scopic scales, Multi Length-Scale Characterisation contains five detailed chapters: Measurement of Bulk Magnetic Properties Thermal Methods Atomic Force Microscopy Gas Sorption in the Analysis of Nanoporous Solids Dynamic Light Scattering. Ideal as a complementary reference work to other volumes in the series (Local Structural Characterisation and Structure from Diffraction Methods) or as an examination of the specific characterisation techniques in their own right, Multi Length-Scale Characterisation is a valuable addition to the Inorganic Materials Series.

With more than 1,000 recipes, The Ultimate Little Cocktail Book is the perfect book for any bar, party, or event. Now updated with new recipes, indexes by drink name and alcohol type, 2-color interiors, and a fresh design, this is a book no drink enthusiast will be able to mix without. Featuring recipes like: Mango Mama: Southern Comfort, Hiram Walker

mango schnapps, orange juice Red Snapper: Crown Royal Special Reserve, amaretto, cranberry juice Electric Lemonade: vodka, Hiram Walker orange curacao, lemonade, pureed strawberries

The US trade union movement finds itself on a global battlefield filled with landmines and littered with the bodies of various social movements and struggles. Candid, incisive, and accessible, this text is a critical examination of labour's crisis and a plan for a bold way forward into the 21st century.

An essential guide to ignition and timing, for classic car owners and restorers. Aimed at both keen amateurs and professionals alike, Ignition and Timing covers the history and evolution of the automotive ignition system, and how to fit, modify and maintain your system for optimum timing and maximum performance. Topics covered include understanding and fault-testing the coil ignition system; post-war distributors and aftermarket systems; how to fit electronic ignitions and modify the distributor, including twin-point distributors; rebuilding and maintenance; Lucas, Delco and Bosch systems; identification charts for your distributor and finally, how to achieve optimum timing and how to use a timing light. Fully illustrated with 90 colour images and 10 diagrams.

(Berklee Guide). Understanding Audio explores the fundamentals of audio and acoustics that impact every stage of the music recording process. Whether you are a musician setting up your first Pro Tools project studio, or you are a seasoned recording engineer or producer eager to find a reference that fills in the gaps in your understanding of audio, this book is for you. Understanding Audio will enable you to develop a thorough understanding of the underlying principles of sound, and take some of the mystery and guesswork out of how equipment setup affects the quality of your recordings. Projects at the end of each chapter will assist you in applying these principles to your own recording environment. Learn about: * Basic and advanced audio theory * Cables and studio wiring * Recording studio and console signal flow * Digital and analog audio * Studio and listening room acoustics * Psychoacoustics * "In the Studio" insights, relating audio principles to real recording situations

Straight facts about riding! A Twist of the Wrist, the acknowledged number one book on rider improvement for ten years straight, brought riders worldwide to a new understanding of vital riding skills. Uncovers and traces, action by action, the direct links between man and machine.

There has been a remarkable difference in the research and development regarding gas turbine technology for transportation and power generation. The former remains substantially florid and unaltered with respect to the past as the superiority of air-breathing engines compared to other technologies is by far immense. On the other hand, the world of gas turbines (GTs) for power generation is indeed characterized by completely different scenarios in so far as new challenges are coming up in the latest energy trends, where both a reduction in the use of carbon-based fuels and the raising up of renewables are becoming more and more important factors. While being considered a key technology for base-load operations for many years, modern stationary gas turbines are in fact facing the challenge to balance electricity from variable renewables with that from flexible conventional power plants. The book intends in fact to provide an updated picture as well as a perspective view of some of the abovementioned issues that characterize GT technology in the two different applications: aircraft propulsion and stationary power generation. Therefore, the target audience for it involves design, analyst, materials and maintenance engineers. Also manufacturers, researchers and scientists will benefit from the timely and accurate information provided in this volume. The book is organized into three main sections including 10 chapters overall: (i) Gas Turbine and Component Performance, (ii) Gas Turbine Combustion and (iii) Fault Detection in Systems and Materials.

This field manual, "Signal Soldier's Guide (FM 6-02.43)," is a pocket reference guide for signal Soldiers at all echelons. It is intended to help signal Soldiers understand and implement Army communications systems operations in a modular force construct. This manual addresses the roles and responsibilities of the signal Soldier and signal planning during the military decision making process. It also provides an overview of the Global Information Grid, LandWarNet and its transport systems, network operations and spectrum management. It also addresses the transformed signal structure from the maneuver battalion through theater level and the support provided between echelons. Applied Operational Excellence for the Oil, Gas, and Process Industries offers a straightforward practical guide for oil and gas companies to understand the comparisons and contrasts between various types of safety management processes, including the standardized structure and ongoing extended benefits that operational excellence can bring to an oil and gas company. The goal of achieving operational excellence is to reduce costs, improve productivity, and enhance efficiency—in other words, operational excellence contributes to the bottom line. Following along with pre-built success in the process industries, many companies in the oil and gas industry appear to use a subset form of operational excellence, yet many are unsure or unaware of all the safety system components that will truly benefit the company holistically, and current literature is only applicable to the process and manufacturing industries. Packed with clear objectives and tools, structure guidelines specific to oil and gas, and guidance for how to imbed your existing safety program under the operational excellence umbrella known as "One-Step Merger," this book will help you establish an overall safety culture vision and challenge your organization to achieve higher levels of safety management and overall company value. Explores how to solidify a foundational operational excellence program applicable for your oil and gas company Clarifies the differences and benefits among various programs under operational excellence (OE), such as SHE (safety, health, and environment), PSM (process safety management), and SMS (safety management system) Explains how to audit and consistently assess how oil and gas OE systems are planned, implemented, and managed, with explanations on cost and time impacts as well as administrative protocols Includes a glossary, acronym appendix, and additional references for further reading

There is a growing concern among the international community that a pending water crisis is threatening the entire global population, not only those living in arid to semi-arid areas. This Report, the second in the series of the United Nations World Water Development Report (WWDR), gives an overview of the water resources in the ESCWA (Economic and Social Commission for Western Asia) region based on the most recent data and information obtained from member countries. The state of water resources in the region is analyzed and assessed on the basis of data and indicators selected from available information and within the context of integrated water resources management (IWRM). The Report provides a comprehensive summary of the current situation of water resources in each member country in terms of availability, accessibility and sustainability.

This is the solutions manual for the text "Fundamentals of Communication Systems," ISBN 978-0-9928510-0-2, which provides a solid foundation in both analog and digital communications. A comprehensive text in electrical engineering with chapters on Signals, Analog Communications, Digital Communications, Information Theory, Analog to Digital, Baseband Signalling, Bandpass Signalling, Block and Convolutional Codes, with an appendix on Probability Theory to help students without prior knowledge of probability theory. Every aspect of the communication theory is brought to life via MATLAB and Mathcad simulations, together with over 140 video lectures. Experience sitting next to the author as you explore the theory in this novel text that provides a unique self-learning environment. 740 pages in the associated text +140 video lectures +340 MATLAB simulations +340 Mathcad simulations +200 problems (Solved in this Solutions Manual). All the multimedia (video lectures and simulations) are delivered via the associated app "Communication Systems" in the iOS and Android app stores. Multimedia content is updated regularly. Together with the source code, PDFs of all the simulations with results are made available to help students easily follow the simulation code. Refer to Appbooke.com for the table of contents, sample video lectures, sample simulations and sample book sections, including links to this App that has been designed for an iPhone, iPad, Android Phone or Android Tablet.

The March 2018 British National Formulary (BNF 75) is your essential reference book for prescribing, dispensing, and administering

medicines.

Handbook of Offshore Oil and Gas Operations is an authoritative source providing extensive up-to-date coverage of the technology used in the exploration, drilling, production, and operations in an offshore setting. Offshore oil and gas activity is growing at an expansive rate and this must-have training guide covers the full spectrum including geology, types of platforms, exploration methods, production and enhanced recovery methods, pipelines, and environmental management and impact, specifically worldwide advances in study, control, and prevention of the industry's impact on the marine environment and its living resources. In addition, this book provides a go-to glossary for quick reference. Handbook of Offshore Oil and Gas Operations empowers oil and gas engineers and managers to understand and capture on one of the fastest growing markets in the energy sector today. Quickly become familiar with the oil and gas offshore industry, including deepwater operations Understand the full spectrum of the business, including environmental impacts and future challenges Gain knowledge and exposure on critical standards and real-world case studies

This volume brings together the practical insights and experiences of individuals and organisations working in diverse regions and contexts to combat 'crimes of honour'. Authors examine strategies of response to such manifestations of violence against women, focusing largely on 'honour killings' and interference with the right to choice in marriage, and the related use and legal treatment of the defence of 'honour' and 'provocation' in different countries of Europe, the Middle East, Latin America and South Asia. This timely volume is distinctive in approach and content, highlighting activist and practice-orientated academic perspectives from both the South and the North. The authors give voice to the struggle to locate 'crimes of honour' firmly within the international framework of violence against women and human rights, rather than positioning these abuses as specific to particular cultures or communities. The first of its kind, this book serves as a resource in addressing 'honour crimes' and, more broadly, violence against women, and will be of interest to a multi-disciplinary academic audience as well as to lawyers, policy-makers and activists.

For many years the integration of the location of land use and activities in spatial systems, as well as the provision of transport in movement of goods, services and people, has been recognized as a challenge amongst various specialists, including: engineers, transportation planners, economists, environmentalists, urban and regional planners and developers. The purpose of this book is to address transportation modelling in terms of technology, techniques and methodology application in context to the interface between transportation systems, land use planning, and environmental challenges and application. The methodology of transportation modelling is applied to international practices and application based on specific case studies, inclusive of public transportation projects; transportation modelling techniques in practice; international research agenda; network design and channel strategies; strategic planning; application of technology in traffic surveys and interpretation; emissions from transportation systems; application of mathematical models and the interface between environment, land use and development in terms of location in space and the resulting activities. Of value to both theorists and practitioners, this book references the integration of transportation modelling techniques within an interdisciplinary environment inside all spatial systems.

"Extremely readable and worthwhile. . . . Clapham's work provides a balanced and insightful perspective of an area which is as complex and diverse as the many countries which comprise its whole."-Journal of International Law & Politics "To write a summary of Third World Politics is a nearly impossible task. . . . Professor Clapham has been able to present a challenging analysis that is worthy of attention. . . . This book is recommended to any Latin Americanist who wishes to put Latin America in the context of the Third World. It is written in clear English without complex statistical data."-Latin America in Books "It is precisely Christopher Clapham's sense of the essence of politics that commends his useful little book. Although not specifically devoted to Africa, his first love does show through in many of the examples chosen. The essential practicality of his approach is well demonstrated in the fact that a third of the book is given over to three chapters entitled: 'Managing the State,' 'Managing the Economy,' and 'Managing the External Political Arena.' "-Richard Rathbone, The International Journal of African Historical Studies

Originally published in 2006 under title: Developing and maintaining a design-tech portfolio.

Featuring the popular characters from Richard Scarry's Busytown, this activity book introduces young students to the alphabet. Written in consultation with a team of early education specialists, this book helps young learners understand and master beginning literacy concepts, guided by friendly and familiar characters. The volume includes a set of collectible stickers that add to the fun of learning.

The Rochester Quadrajet carburetor was found perched atop the engine of many a classic GM performance vehicle. The Q-Jet is a very capable but often misunderstood carb. This book, How to Rebuild and Modify Rochester Quadrajet Carburetors, seeks to lift the veil of mystery surrounding the Q-Jet and show owners how to tune and modify their carbs for maximum performance. The book will be a complete guide to selecting, rebuilding, and modifying the Q-Jet, aimed at both muscle car restorers and racers. The book includes a history of the Q-Jet, an explanation of how the carb works, a guide to selecting and finding the right carb, instructions on how to rebuild the carb, and extensive descriptions of high-performance modifications that will help anyone with a Q-Jet carb crush the competition.

This book combines the knowledge and experience of the members of the instructional staff of the Abrams School of Aerial Surveying and Photo Interpretation. Aerial mapping and reconnaissance had become vital by the middle of the second world war, this is an instructional guide compiling all of the knowledge on the subject gathered up to the point.

This book looks anew at the vexing question of whether Islam is compatible with democracy, examining histories of Islamic politics and social movements in the Middle East since the 1970s.

Dawn is a normal suburban high school senior living Saratoga Springs, New York. Her father is an expert in legends and myths and is a professor at the nearby college. She is a good looking popular girl with a boring mundane life until a new girl moves into the neighborhood. Grace is shy and looks like she stepped out of the 1940's and makes quite an impression with the kids at school. Dawn decides early on to befriend her even though she will lose her social status and takes a seat at the Nerd Table. Grace tends to be strange and keeps to herself except when around Dawn and with Dawn's help Grace blossoms. After Brandon, the captain of the football team asks Dawn out her life becomes a roller coaster of emotions and things become even more twisted after Grace's brother Max arrives and the two foster a relationship that thrusts her into a dark world where nothing is as it seems. Selected for J.P. Morgan's 2018 Holiday Reading List Imagine your life without the internet. Without phones. Without television. Without sprawling cities. Without the freedom to continue working and playing after the sun goes down. Electricity is at the core of all modern life. It has transformed our society more than any other technology. Yet, no book offers a comprehensive history about this technological marvel. Until now. Simply Electrifying: The Technology that Transformed the World, from Benjamin Franklin to Elon Musk brings to life the 250-year history of electricity through the stories of the men and women who used it to transform our world: Benjamin Franklin, James Watt, Michael Faraday, Samuel F.B. Morse, Thomas Edison, Samuel Insull, Albert Einstein, Rachel Carson, Elon Musk, and more. In the process, it reveals for the first time the complete, thrilling, and often-dangerous story of electricity's historic discovery, development, and worldwide application. Electricity plays a fundamental role not only in our everyday lives but in history's most pivotal events, from global climate change and the push for wind- and solar-generated electricity to Japan's nuclear accident at Fukushima and Iran's pursuit of nuclear weapons. Written by electricity expert and four-decade veteran of the industry Craig R. Roach, Simply Electrifying marshals, in fascinating narrative detail, the full range of factors

that shaped the electricity business over time—science, technology, law, politics, government regulation, economics, business strategy, and culture—before looking forward toward the exhilarating prospects for electricity generation and use that will shape our future.

In this fascinating book, Vic Satzewich traces one hundred and twenty-five years of Ukrainian migration, from the economic migration at the end of the nineteenth century to the political migration during the inter-war period and throughout the 1960s and 1980s resulting from the troubled relationship between Russia and the Ukraine. The author looks at the ways the Ukrainian Diaspora has retained its identity, at the different factions within it and its response to the war crimes trials of the 1980s.

A fully updated textbook on linear systems theory Linear systems theory is the cornerstone of control theory and a well-established discipline that focuses on linear differential equations from the perspective of control and estimation. This updated second edition of Linear Systems Theory covers the subject's key topics in a unique lecture-style format, making the book easy to use for instructors and students. João Hespanha looks at system representation, stability, controllability and state feedback, observability and state estimation, and realization theory. He provides the background for advanced modern control design techniques and feedback linearization and examines advanced foundational topics, such as multivariable poles and zeros and LQG/LQR. The textbook presents only the most essential mathematical derivations and places comments, discussion, and terminology in sidebars so that readers can follow the core material easily and without distraction. Annotated proofs with sidebars explain the techniques of proof construction, including contradiction, contraposition, cycles of implications to prove equivalence, and the difference between necessity and sufficiency. Annotated theoretical developments also use sidebars to discuss relevant commands available in MATLAB, allowing students to understand these tools. This second edition contains a large number of new practice exercises with solutions. Based on typical problems, these exercises guide students to succinct and precise answers, helping to clarify issues and consolidate knowledge. The book's balanced chapters can each be covered in approximately two hours of lecture time, simplifying course planning and student review. Easy-to-use textbook in unique lecture-style format Sidebars explain topics in further detail Annotated proofs and discussions of MATLAB commands Balanced chapters can each be taught in two hours of course lecture New practice exercises with solutions included

Nineteen-year-old Claire MacDougal prides herself on being sexy, independent, and noncommittal. She shows off what her mother gave her in a scantily clad uniform, getting big tips at the restaurant where she works. Then, she encounters an old classmate with educational ambitions who invites her to his church, and she finds herself falling for him despite the fact that they come from two different worlds. Stuart Jacobs had always had feelings for Claire in high school, but never pursued her because his extracurricular activities would not permit him the time to have a relationship...nor was he her ideal. Now his mother is adamant on him meeting and pursuing a relationship with the daughter of a highly esteemed mayoral candidate, but after running into Claire after graduation, he sees it as fate and will stop at nothing to be with her. However, when he finds himself competing with a friend for her attention, she becomes the talk of every concerned mother at Renewal Baptist Church. Meanwhile, Cecelia Faulks, First Lady of Renewal, is dedicating her summer to instilling faith and wisdom into a group of young adults, all while trying to keep the church and her marriage together with a smile. Cecelia sees the bond forming between Claire and Stuart and tries to talk down the bad rumors swirling about her, but when the rumors are confirmed, will it be too late to change for the girl who was all about her thighs?

To get back at the man who insulted and refused her, Marianne Holton kidnaps him and forces him to marry her before she's sold off. Spirited and virginal Lady Marianne Holton seeks revenge on Lord Blaise Gray, a man she has never met, for insulting her by letter and refusing to wed her. She plans to force his hand before she is married off to a man known for his cruelty towards women. Her plan for a forced marriage goes well, but she forced the wrong man. Instead of marrying Blaise, she married his handsome, thirty-six year old father, Lord William Gray, Earl of Graystone. To her delight, the plan works. To her horror, she married the wrong man. William, a lord who had previously given up on life, is enraged to have had his hand forced by a woman who had the audacity to not even know his true identity until it was too late, and he vows to make use of his new bride as soon as possible. However, he finds himself unable to destroy the fiery spirit that took charge of her own destiny, and makes a new vow to protect her from the scorned man who would have been her husband, and make her his true wife.

The third edition of this annual publication presents the most recent health data for the 193 WHO member states, based on an expanded set of 50 health statistics, with a new section of 10 statistical highlights in global public health for the past year. The data has been selected on the basis of relevance for global health, availability and quality of data, and accuracy and comparability of estimates, and collated from WHO publications and databases of technical programmes and regional offices. It also contains statistics on the distribution of selected health outcomes and interventions within countries, disaggregated by gender, age, urban/rural setting, wealth/assets, and educational level, which are primarily derived from the analysis of household surveys and available for a limited number of countries.

Jenny Holzers Werke erreichen und berühren ein großes Publikum weltweit. In den 1980er Jahren zeigte die Künstlerin ihre aufrüttelnden politischen Texte auf LED-Anzeigentafeln und Laufbändern in Flughäfen oder Sportstadien. Für ihre jüngeren Lichtarbeiten benutzt sie Xenon-Scheinwerfer, mit denen sich Schriftzüge auf jede Gebäudefläche, aber auch auf Plätze oder Flüsse projizieren lassen. Die Publikation dokumentiert einen Querschnitt aus Jenny Holzers Lichtkunst-uvre, für den die Künstlerin im Rahmen der Duisburger Akzente 2004 Textbotschaften aus ihren berühmten Arbeiten Truisms (1977-1979), Inflammatory Essays (1979-1982), Survival (1983-1985) und Mother and Child (1990) auf die monumentalen Stahlskulpturen des Hochofens im ehemaligen Thyssen-Hüttenwerk sowie auf weitere markante Architekturen der Duisburger Innenstadt projizierte. Alle Texte der Xenon-Installationen erstmals in neuer deutscher Übersetzung.

GM LS-series engines are some of the most powerful, versatile, and popular V-8 engines ever produced. They deliver exceptional torque and abundant horsepower, are in ample supply, and have a massive range of aftermarket parts available. Some of the LS engines produce about 1 horsepower per cubic inch in stock form--that's serious performance. One of the most common ways to produce even more horsepower is through forced air induction--supercharging or turbocharging. Right-sized superchargers and turbochargers and relatively easy tuning have grown to make supercharging or turbocharging an LS-powered vehicle a comparatively simple yet highly effective method of generating a dramatic increase in power. In the revised edition of How to Supercharge & Turbocharge GM LS-Series Engines, supercharger and turbocharger design and operation are covered in detail, so the reader has a solid understanding of each system and can select the best system for his or her budget, engine, and application. The attributes of Roots-type and centrifugal-type superchargers as well as turbochargers are extensively discussed to establish a solid base of knowledge. Benefits and drawbacks of each system as well as the impact of systems on the vehicle are explained. Also covered in detail are the installation challenges, necessary tools, and the time required to do the job. Once the system has been installed, the book covers tuning, maintenance, and how to avoid detonation so the engine stays healthy. Cathedral, square, and D-shaped port design heads are explained in terms of performance, as well as strength and reliability of the rotating assembly, block, and other components. Finally, Kluczyk explains how to adjust the electronic management system to accommodate

a supercharger or turbocharger. How to Supercharge and Turbocharge GM LS-Series Engines is the only book on the market specifically dedicated to forced air induction for LS-series engines. It provides exceptional guidance on the wide range of systems and kits available for arguably the most popular modern V-8 on the market today.

Have you ever wondered why students too often have only a rudimentary understanding of mathematics, why even rich and exciting hands-on learning does not always result in "real" learning of new concepts? The answer lies in whether students have actually learned mathematical concepts, rather than merely memorizing facts and formulas. Concept-Rich Mathematics Instruction is based on the constructivist view that concepts are not simply facts to be memorized and later recalled, but rather knowledge that learners develop through an active process of adapting to new experiences. The teacher's role is critical in this process. When teachers prompt students to reflect on their experiences and report and answer questions verbally, students must re-examine and even revise their concepts of reality. Meir Ben-Hur offers expert guidance on all aspects of Concept-Rich Mathematics Instruction, including * Identifying the core concepts of the mathematics curriculum. * Planning instructional sequences that build upon concepts that students already understand. * Designing learning experiences that provoke thoughtful discussions about new concepts and prepare students to apply these concepts on their own. * Identifying student errors, particularly those caused by preconceptions, as important sources of information and as key instructional tools. * Conducting classroom dialogues that are rich in alternative representations. * Using a variety of formative assessment methods to reveal the state of students' learning. * Incorporating problem-solving activities that provoke cognitive dissonance and enhance students' cognitive competence. Concept-Rich Mathematics Instruction is grounded in the belief that all students can learn to think mathematically and solve challenging problems. If you're looking for a powerful way to improve students' performance in mathematics and move closer to fulfilling the NCTM standards, look no further: this approach provides the building blocks for constructing a first-class mathematics program.

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