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This book is designed to apprise the students of chemical engineering with a variety of different processes of chemical technologies. The book is richly illustrated and covers the essential information with the help of flow diagrams, enabling the students to gain a full understanding of both the fundamental concepts and chemical reactions involved in process technologies. Newer technologies have been dealt with and some technologies which have lost their relevance have been omitted. Computer simulation methods have been described for many important technologies. In short, the book considers computer design tools and design software, in a manner that integrates this knowledge smoothly into the main subject. The book is expected to become useful not only to the students for courses in Chemical Technology but also to practising engineers and process designers for innovative process development. There are topics on natural products and fermentation process chemicals, organic chemicals, inorganic chemicals, refinery operations, oil and gas operations and nanotechnology products. In some of these topics, computer simulation and costing examples are included. An illustration of modelling and simulation using C++, is also given as an example of user-written programs for simulation. Another method that can be used for simulation is the use of spreadsheets, which is also described with the help of an example. A new important topic of today being 'polysilicon' used in the manufacture of computer chips and solar panels, is also covered in detail. *Chronicles of a village boy in New Delhi* is a first person account of the transition that most youth are experiencing today: from one age to another, one place to another and one value system to another. The book elucidates what factors influence that process and unleash the potential in individuals (even those without a godfather!), with thoughts that inspire and direct destinies. Written in an unconventional style, the book has insights for the youth of today to understand their elders and be sensitive to generational transition without succumbing to gene factors and not falling prey to the lures of the emerging times. The chronicles subtly hint at the dilemma of today in public space, points at contradictions and suggests introspection for proactive initiatives. The book profiles ten different important public movements in the country with concern and perspective. The author being a pioneer in applied social research, the book is a treasure for social analysts. Study conducted at the Guntur District of Andhra Pradesh, India. This volume contains 73 papers presented at ICMEET 2015: International Conference on Microelectronics, Electromagnetics and Telecommunications. The conference was held during 18 – 19 December, 2015 at Department of Electronics and Communication Engineering, GITAM Institute of Technology, GITAM University, Visakhapatnam, INDIA. This volume contains papers mainly focused on Antennas, Electromagnetics, Telecommunication Engineering and Low Power VLSI Design. The curriculum is the soul of the educational process, the heart of educational institution and the mind of the academic programme. It is the tool in the hands of the teachers to mould his students according to the goals of the education, and aims and objectives of the course. Any course cannot be conducted without a prescribed curriculum. More particularly, a definite as well as flexible curriculum at elementary level is needed as it is a combination of various subjects, skills, abilities, aptitudes and understanding. The present book on elementary curriculum is intended to guide preservice and inservice teachers to teach effectively, to provide insights to the curriculum designers to develop a suitable curriculum, to the writers to suggest suitable learning experiences, and to the parents to cooperate to realise the potentialities of their children. This book is touching all the important issues of curriculum, curriculum development, language arts, social studies, science, mathematics, assessment and evaluation. Adjustment and adolescence are the two sides of the same coin. As the adolescence is considered as the period of stress and storm and as the adjustment gets a shape at the age of adolescence, the adjustment of adolescents gains much attention from everyone interested in the growth and development of an individual. The adolescents struggle hard in developing proper adjustment as they are considered neither as adults nor as children. Hence, adjustment of adolescents is of special interest for study. *Public Administrative System In India* Continuously Spread And Expanded Its Scope Carrying Its Steel Frame For About 40 Years After Independence. Steel Is Symbolic Of Hardness Of Character, Strength, Firmness And Malleability. The Steel Frame Is Now Tempered And Transformed In To Plastic. The System For The Last 20 Years Is Getting Molded To The Needs Of Global Environmental Changes And Undergoing Certain Plastic Surgery. The Volume Contains The Research Papers Of The Author Contributed To Various Seminars, Conferences And Journals. The Papers Are Varied On Different Aspects Of The Discipline And Profession Of Public Administration In India. This book helps students, researchers, and practicing engineers to understand the theoretical framework of control and system theory for discrete-time stochastic systems so that they can then apply its principles to their own stochastic control systems and to the solution of control, filtering, and realization problems for such systems. Applications of the theory in the book include the control of ships, shock absorbers, traffic and communications networks, and power systems with fluctuating power flows. The focus of the book is a stochastic control system defined for a spectrum of probability distributions including Bernoulli, finite, Poisson, beta, gamma, and Gaussian distributions. The concepts of observability and controllability of a stochastic control system are defined and characterized. Each output process considered is, with respect to conditions, represented by a stochastic system called a stochastic realization. The existence of a control law is related to stochastic controllability while the existence of a filter system is related to stochastic observability. Stochastic control with partial observations is based on the existence of a stochastic realization of the filtration of the observed process. *Theory of Charges* Science educators have included the development of scientific attitude among the general aims of science education since the beginning of the present century. To many science educators, a man with scientific attitude looks for the natural causes of events, is open-minded towards the work and opinion of others and towards information related to his problem, forms opinion and conclusions on adequate evidence, evaluates techniques and procedures used and information obtained, and is curious concerning the things he observes. Contents: Introduction, Related Literature, Research Design, Data Analysis, Summary, Conclusions and Discussion. *Processes and Ore Deposits of Ultramafic-Mafic Magmas through Space and Time* focuses on the fundamental processes that control the formation of ore deposits from ultramafic-mafic magmas, covering chromite, platinum-group element (PGE), Ni-sulfides and Ti-V-bearing magnetite. The exploration, exploitation and use of these magmatic ores are important aspects of geology and directly linked to the global economy. Magmatic ores form from ultramafic-mafic magmas and crystallize at high-temperature after emplacement into crustal magma chambers, and are genetically linked to the evolution of the parental magmas through space and time. This book features recent developments in the field of magmatic ore deposits, and is an essential resource for both industry professionals

and those in academia. Elucidates the relationships between tectonic settings and magmatic ore mineralization Provides the links between magma generation in the mantle and ore mineralization at crustal levels Features the latest research on changing patterns in magmatic ore mineralization through time and their bearing on the chemical evolution of the Earth's mantle The availability and continuity of Petroleum and Natural gas have become an important parameter for the growth of economy of any country. Specially the scarcity of the precious stock is reflected in the growing economies. Our country being poor in these resources, has to depend upon the ever increasing imports. Our crude production for decades together never crossed 34 MMT thus by 2010 we may have to import 130-150 MMTPA, though our refining capacity has gone up to 134 MMTPA with a present consumption of 110 MMTPA. With new discoveries and over-sea ventures by ONGC and other oil producing organizations, present production is better than what it was four decades ago. The present Fifth Edition is a value added text and taken care of many aspects of modern refining and Indian Industry. Contents: Origin, Formation and Composition of Petroleum / Petroleum Processing Data / Fractionation of Petroleum / Treatment Techniques / Thermal and Catalytical Processes / Asphalt Technology / Appendix 1 / Appendix 2 / Appendix 3 / Appendix 4 / Appendix 5 / Index `This most commendable volume brings together a set of papers which permits ready access to the means of estimating quantitative relationships using cointegration and error correction procedures. Providing the data to show fully the basis for calculation, this approach is an excellent perception of the needs of senior undergraduates and graduate students.' - Professor W.P. Hogan, The University of Sydney Applied economists, with modest econometric background, are now desperately looking for expository literature on the unit roots and cointegration techniques. This volume of expository essays is written for them. It explains in a simple style various tests for the existence of unit roots and how to estimate cointegration relationships. Original data are given to enable easy replications. Limitations of some existing unit root tests are also discussed. This book presents select peer-reviewed proceedings of the International Conference on Futuristic Advancements in Materials, Manufacturing, and Thermal Sciences (ICFAMMT 2022). The contents of this book provide an overview of the latest research in the area of manufacturing sciences such as metal cutting, metal forming, casting, joining, micromachining, nonconventional machining, and additive manufacturing. Some of the other themes covered in this book are metal-based additive manufacturing, polymer-based additive manufacturing, hybrid additive manufacturing, optimization approach for minimizing GD, and error in additive manufactured parts. The book will be useful for researchers and professionals working in the field of manufacturing engineering. This masterful analysis of patent law in India, by two of India's most distinguished jurists, investigates thoroughly the scope of the possible answers to these crucial questions. Recognizing the character of the revolution taking place in patent law globally under the regime of multinational corporations - and India's central role in its development - Dr. Rao and Dr. Manjula Guru's analysis focuses on the patenting of substances arising out of advances in biotechnology, genetically engineered products, and computer-related devices. But they do not neglect the practical details of application, registration, and proceedings as constituted under the amended law; in fact, this book is the most detailed and insightful procedural and practice guide to the subject we have. Topics and areas of practice covered include the following: * patent for new use of a known product; * prescribed form of application; * entry in the Register; * powers of the Controller of Patents; * opposition and revocation proceedings; * addition and restoration of lapsed patents; * defences and reliefs in infringement proceedings; * compulsory licensing; * experimental use; * international arrangements for grants of patents simultaneously by several countries; * anti-competitive practices; and * exclusive marketing rights. Human Resource Development (HRD) is fundamental in generating and implementing the tools needed to manage and operate the organization right from the production, management, marketing and sales to research and development, in order to be more productive. This can be done by making people sufficiently motivated, trained, informed, managed, utilized and empowered. Thus, HRD forms a major part of human resource management activities in the organizations. This book has been carefully developed keeping in mind the requirements of all the varied segments that could use this book extensively and specifically for the students who have chosen HR elective and scholars pursuing research in the broad field of HR. The book is divided into nineteen chapters and each chapter is backed by illustrations, exercises and case studies, appropriately. The first two chapters start with the introduction to the field. The third and fourth chapters give an introduction to how HRD plays a role in learning the behavior of employees. Rest of the chapters - five to eighteen - deal with various functions of HRD. Finally, the last chapter brings out a detail methodology of how to develop a validated instrument which could be used for survey research in the HR field. The book has been written in very simple and easily understandable manner with relevant quoted references from earlier researches in this field. This will definitely help the readers to refer the source material, if detail reading is required. Study conducted among the student teachers who undergo one year B. Ed. course in the colleges of education of Guntur District, Andhra Pradesh, India. Study conducted among the secondary school students of Prakasam District, Andhra Pradesh, India. This book is prepared on various sections of cryogenics: properties of cryogenic products and solid bodies at low temperatures, methods of internal cooling, heat transfer at low temperatures, gas liquefaction and separation, micro-cryogenic systems, storage and transport of cryogenic fluids, and cryogenic systems for scientific research and development. Contents: Properties of Cryogenic Products and their use, Helium Properties Superfluidity, Properties of Solid Bodies at Low Temperatures, Classification of Cryogenic Systems, Thermomechanical Processes of Internal Cooling: Throttling and Expanding, Thermomechanical Processes of Internal Cooling: Exhaust, Vapor Pump-out, Desorption, Low Literature Thermodynamics Cycles, Electromagnetic Methods of Cooling, Cooling Methods Based on Specific Properties of Helium Isotopes, Heat Transfer at Low Temperatures, Gas Liquefaction and Separation Systems, Microcryogenic Systems, Liquid and Solid-state Microcryogenic Systems, Storage and Transportation of Cryogenic Fluids, Processes in Cryogenic Vessels, Cryogenic Systems for Scientific Research. With nearly a quarter of the world's population, members of at least five major language families plus several putative language isolates, South Asia is a fascinating arena for linguistic investigations, whether comparative-historical linguistics, studies of language contact and multilingualism, or general linguistic theory. This volume provides a state-of-the-art survey of linguistic research on the languages of South Asia, with contributions by well-known experts. Focus is both on what has been accomplished so far and on what remains unresolved or controversial and hence offers challenges for future research. In addition to covering the languages, their histories, and their genetic classification, as well as phonetics/phonology, morphology, syntax, and sociolinguistics, the volume provides special coverage of contact and convergence, indigenous South Asian grammatical traditions, applications of modern technology to South Asian languages, and South Asian writing systems. An appendix offers a classified listing of major sources and resources, both digital/online and printed. This volume is the first in the new series Nonlinear Time Series and Chaos. The general aim of the series is to provide a bridge between the two communities by inviting prominent researchers in their respective fields to give a systematic account of their chosen topics, starting at the beginning and ending with the latest state. It is hoped that researchers in both communities will find the topics relevant and thought provoking. In this volume, the first chapter, written by Professor Colleen Cutler, is a comprehensive account of the theory and estimation of fractal dimension, a topic of central importance in dynamical systems, which has recently attracted the attention of the statisticians. As it is natural to study a stochastic dynamical system within the framework of Markov chains, it is therefore relevant to study their limiting behaviour. The second chapter, written by Professor Kung-Sik Chan, reviews some limit theorems of Markov chains and illustrates their relevance to chaos. The next three chapters are concerned with specific models. Briefly, Chapter Three by Professor Peter Lewis and Dr Bonnie Ray and Chapter Four by Professor Peter Brockwell generalise the class of self-exciting threshold autoregressive models in different directions. In Chapter Three, the new and powerful methodology of multivariate adaptive regression splines (MARS) is adapted to time series data. Its versatility is illustrated by reference to the very interesting and complex sea surface temperature data. Chapter Four exploits the greater tractability of continuous-time Markov approach to discrete-time data. The approach is particularly relevant to irregularly sampled data. The concluding chapter, by Professor Pham Dinh Tuan, is likely to be the most definitive account of bilinear models in discrete time to date. Contents: A Review of the Theory and Estimation of Fractal Dimension (C D Cutler) A Review of Some Limit Theorems of Markov Chains and Their Applications (K S Chan) Nonlinear Modeling of Multivariate and Categorical Time Series Using Multivariate Adaptive Regression Splines (P A W Lewis & B K Ray) Threshold ARMA Processes in Continuous Time (P J Brockwell) Bilinear Time Series Models (P D Tuan) Readership: Statisticians, engineers and economists. keywords: This third volume, edited and authored by world leading experts, gives a review of the principles, methods and techniques of important and emerging research topics and technologies in array and statistical signal processing. With this reference source you will: Quickly grasp a new area of research Understand the underlying principles of a topic and its application Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Quick tutorial reviews of important and emerging topics of research in array and statistical signal processing Presents core principles and shows their application Reference content on core principles, technologies, algorithms and applications Comprehensive references to journal articles and other literature on which to build further, more specific and detailed knowledge Edited by leading people in the field who, through their reputation, have been able to commission experts to write on a particular topic Study conducted at Guntur District of Andhra Pradesh, India. This sequel to volume 19 of Handbook on Statistics on Stochastic Processes: Modelling and Simulation is concerned mainly with the theme of reviewing and, in some cases, unifying with new ideas the different lines of research and developments in stochastic processes of applied flavour. This volume consists of 23 chapters addressing various topics in stochastic processes. These include, among others, those on manufacturing systems, random graphs, reliability, epidemic modelling, self-similar processes, empirical processes, time series models, extreme value theory, applications of Markov chains, modelling with Monte Carlo techniques, and stochastic processes in subjects such as engineering, telecommunications, biology, astronomy and chemistry. particular with modelling, simulation techniques and numerical methods concerned with stochastic processes. The scope of the project involving this volume as well as volume 19 is already clarified in the preface of volume 19. The present volume completes the aim of the project and should serve as an aid to students, teachers, researchers and practitioners interested in applied stochastic processes. This book of chemical & Petroleum Engineering Contains of Various Topics. It covers different type of question with their Answers and Fill in the Blanks. Required data and equations are given for day to day calculations of Chemical Engineering topics. This book is necessary tool or an instrument for Chemical & Petroleum Engineers. Contents: - Introduction, Related Literature, Research Design, Data Analysis, Summary, Conclusions and Discussion. The Science and Technology of Cement and other Hydraulic Binders covers the design of Portland Cement composition using the ideas and formulae of earlier scientists, including the calculation of proportions of different cement phases formed during processing. Other chapters cover cement manufacture by dry, semi-dry or wet processes using rotary and shaft kilns. Particular attention is given to the physical changes that occur in the raw mix when affected by chemical processes. The chemistry of clinker formation which is concerned chiefly with high temperature reactions in the solid-state phase or reactions in the presence of the liquid phase is also discussed. Users will find the latest information on the storage of cement, its packing and handling, hydration and setting, Gypsum, different mineral additions, and advances in special and newer cements, including blended cements, Portland slag cement, Pozzolanic cements, high alumina cements, high-strength cement-based materials, fiber-reinforced cement, non-Portland cements and lime. Covers raw materials, cement design and manufacturing, fuels used in manufacturing, phase balances, clinker training, hydration and setting Includes various types of cement, mineral additions, high strength cement and different cement-based materials Presents information on activated alkaline materials, recycled cements and novel additions Discusses future trends in cement manufacturing and the circular economy Contains a high number of figures, tables and reference data There is a renaissance that is occurring in chemical and process engineering, and it is crucial for today's scientists, engineers, technicians, and operators to stay current. With so many changes over the last few decades in equipment and processes, petroleum refining is almost a living document, constantly needing updating. With no new refineries being built, companies are spending their capital re-tooling and adding on to existing plants. Refineries are like small cities, today, as they grow bigger and bigger and more and more complex. A huge percentage of a refinery can be changed, literally, from year to year, to account for the type of crude being refined or to integrate new equipment or processes. This book is the most up-to-date and comprehensive coverage of the most significant and recent changes to petroleum refining, presenting the state-of-the-art to the engineer, scientist, or student. Useful as a textbook, this is also an excellent, handy go-to reference for the veteran engineer, a volume no chemical or process engineering library should be without. Written by one of the world's foremost authorities, this book sets the standard for the industry and is an integral part of the petroleum refining renaissance. It is truly a must-

have for any practicing engineer or student in this area. This book paints a wide canvas of the immense global economic potential of ten most important cash generating crops spread over Asia, Africa and Latin America, namely, Arecanut, Cashew Nut, Coconut, Cinchona, Cocoa, Coffee, Tea, Oil Palm, Rubber and Wattle. It provides a cross-sectoral, multi-scale assessment of the status of these crops, from seed to dining table, an invaluable treatise on the subject. Structured to be an invaluable tool for the inquisitive researcher, an ardent student, and, an insightful policy maker. Study conducted at Guntur District of Andhra Pradesh, India. Contents: Science, Curriculum, Curriculum Development, Science in the Curriculum, Need of Science, Objectives of Science, Instructional Objectives of Science, Trends in Elementary School Science, Science Education in Secondary Schools, Designing Science Units of Study, Problem Solving, Practical Solving, Practical Work, Nature Work, Creativity, Community Resources, Microcomputers, Reading, Writing, Effective Communication, Learning Difficulties, Professional Science Teacher, Mentor Teachers, Innovative Evaluation Procedures, Improving Science Curriculum, Role of Educational Philosophies in Improving the Quality of Science Curriculum, Futurism in the Science Curriculum, Project 2000 +, Learning Without Burden.

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