Faculty Profile Dr Aniket K Gade Designation Department

This is the United Nations definitive report on the state of the world economy, providing global and regional economic outlook for 2020 and 2021. Produced by the Department of Economic and Social Affairs, the five United Nations regional commissions, the United Nations Conference on Trade and Development, with contributions from the UN World Tourism Organization and other intergovernmental agencies.

Lists for 19 include the Mathematical Association of America, and 1955- also the Society for Industrial and Applied Mathematics.

Concepts and Methods in Modern Theoretical Chemistry, Two-Volume Set focuses on the structure and dynamics of systems and phenomena. A new addition to the series Atoms, Molecules, and Clusters, the two books offer chapters written by experts in their fields. They enable readers to learn how concepts from ab initio quantum chemistry, density functio

Provides clinicians with current information on obstetric conditions that can be treated in outpatient visits rather than by prolonged hospitalization. The 17 chapters discuss why ambulatory management is needed, which patients are eligible, and how to administer care to these patients. The outpatient management of pregnant women experiencing preterm labor, pyelonephritis, hypertension, asthma, multiple gestation, diabetes, and hyperemesis gravidarum is described. Other topics include early postpartum discharge, the psychosocial impact of high risk pregnancy, and strategies to reduce telephone liability. Annotation copyrighted by Book News Inc., Portland, OR.

This book presents select proceedings of the International Conference on Artificial Intelligence and Data Engineering (AIDE 2020). Various topics covered in this book include deep learning, neural networks, machine learning, computational intelligence, cognitive computing, fuzzy logic, expert systems, brain-machine interfaces, ant colony optimization, natural language processing, bioinformatics and computational biology, cloud computing, machine vision and robotics, ambient intelligence, intelligent transportation, sensing and sensor networks, big data challenge, data science, high performance computing, data mining and knowledge discovery, and data privacy and security. The book will be a valuable reference for beginners, researchers, and professionals interested in artificial intelligence, robotics and data engineering.

Arguing that higher education can play a unique role in addressing the fundamental divisions in our society and economy by supporting individuals in reaching their full potential, the authors have developed a provocative guide for higher education leaders who want to promote healthy and productive campus communities.

Revised and updated by faculty members and residents of the Department of Surgery at one of the world’s top surgical training programs, The Washington Manual of Surgery, Sixth Edition, presents a concise, rational approach to the management of patients with surgical conditions. This portable, full-color text is written in a user-friendly, outline format to ensure fast access and a practical approach to the management of patients with surgical problems. Each topic covers the most important and up-to-date diagnostic and treatment information to help maximize your clinical decision-making skills.

The book covers the taxonomy, diversity, bioactivity, and nanotechnology involved in the study of the genus Phoma. It presents the most recent molecular taxonomic

approach, secondary metabolites, different bioactivities, combating microbial threats, and its use in nanotechnology from a basic research to an applied perspective. Expert contributors provide the latest research and applications to present thorough coverage of this important genus in human and plant pathology and the disease management.
This book presents a comprehensive overview of new and emerging nanotechnologies. It includes aspects of nanoparticle monitoring, toxicity, and public perception, and covers applications that address both crop growing and treatment of agricultural wastewater. Topics include nanoagrochemicals (nanofertilizers, -pesticides, -herbicides), nanobiosensors, and nanotechnologies for food processing, packaging, and storage, crop improvement and plant disease control. The group of expert authors is led by an experienced team of editors.
This book features selected papers presented at the 3rd International Conference on Wireless Communications and Applications (ICWCA 2019), held at Hainan University, China. Focusing on applications of the latest smart theories and approaches, and recent advances in the field, it covers topics such as OFDM and multi-carrier techniques; smart antenna and space-time signal processing; MIMO, multi-user MIMO, and massive MIMO; modulation, coding, and diversity techniques; dynamic spectrum access and cognitive radio; interference management and radio resource allocation; equalization techniques; synchronization, estimation, and detection techniques; and wireless multiple access (e.g. CDMA, OFDMA, NOMA,).
This book focuses on recent advances and different research areas in multi-modal data fusion under healthcare informatics and seeks out theoretical, methodological, well-established and validated empirical work dealing with these different topics. This book brings together the latest industrial and academic progress, research, and development efforts within the rapidly maturing health informatics ecosystem. Contributions highlight emerging data fusion topics that support prospective healthcare applications. The book also presents various technologies and concerns regarding energy aware and secure sensors and how they can reduce energy consumption in health care applications. It also discusses the life cycle of sensor devices and protocols with the help of energy-aware design, production, and utilization, as well as the Internet of Things technologies such as tags, sensors, sensing networks, and Internet technologies. In a nutshell, this book gives a comprehensive overview of the state-of-the-art theories and techniques for massive data handling and access in medical data and smart health in IoT, and provides useful guidelines for the design of massive Internet of Medical Things. Presents a rigorous introduction to theoretical foundations and practical solutions for Internet of Medical Things; Covers data handling, intelligence and security and related issues to guide the massive data handling techniques for healthcare; Includes examples and case studies for further study for academics, researchers, and professionals.
This book is part of a two-volume work that offers a unique blend of information on realistic evaluations of catalyst-based synthesis processes using green chemistry principles and the environmental sustainability applications of such processes for biomass conversion, refining, and petrochemical production. The volumes provide a comprehensive resource of state-of-the-art technologies and green chemistry methodologies from researchers, academics, and chemical and manufacturing industrial scientists. The work will be of interest to professors, researchers, and practitioners in clean energy catalysis, green chemistry, chemical engineering and manufacturing, and environmental sustainability. This volume focuses on the potentials, recent advances, and future prospects of catalysis for biomass conversion and value-added chemicals production via green catalytic routes. Readers are presented with a mechanistic framework assessing the development of product selective catalytic processes for biomass and biomass-derived feedstock conversion. The book offers a unique combination of contributions from experts working on both lab-scale and industrial catalytic processes and provides insight into the use of various catalytic materials (e.g., mineral acids, heteropolyacid, metal catalysts, zeolites, metal oxides) for clean energy production and environmental

sustainability.

First why a superhero can’t be born to be superhero. Born with natural superhero abilities which evolve over a period of time. Born for a task to save the human race. Young Kabir born in Wadia family, loses his mother at birth. But little is he aware that he is going to evolve with superpowers as he crosses his teens and reaches early twenties. Grown with adventurous friends, all are always exploring different areas and one fine day end up in Himalayas, all attempting to spot the Yeti. The most shocking is when they see him, but then in the process Kabir goes missing. Friends have to return on constraints. Further little did Kabir know that he was to be initiated and trained and guided on his purpose of life. He also meets the council of 7, the ones who have lived timelessly and are never aging. The powerful council initiate Kabir. Kabir’s friends after departure though sad, don’t lose hope and continue with their explorations only to go deeper into some ancient secrets. Strange things happen to them as well, though they aren’t superheroes but are talented differently in their own way. In all this will they be able to save the Town from the villains as a master plan is drawn to blow the entire town of Dehradun. Will Kabir gain senses and understand his role and do the right thing instead of seeking for revenge on personal front. The Mighty, the one who could change size and shape at will, is always around to help and guide. But happens when the real danger is faced.

This book provides a comprehensive reference guide to plant-derived antioxidants, their beneficial effects, mechanisms of action, and role in disease prevention and improving general health (anti-ageing effect). The content is divided into three main parts, the first of which covers various antioxidants (such as polyphenols, carotenoids, tocopherols, tocotrienols, glutathione, ascorbic acid), their origins, plant biochemistry and industrial utilization. In turn, the book's second, main part focuses on antioxidants' beneficial health effects, explains biochemical fundamentals such as the free radical theory and oxidative stress, and discusses antioxidants' role in e.g. cancer, cardiovascular diseases, inflammation, degenerative diseases and ageing. The third part reviews general laboratory methods for antioxidant screening, preservation and determination. Written by an international team of experts, this highly interdisciplinary book will benefit a broad range of health professionals and researchers working in biochemistry, biotechnology, nutrition, plant science and food chemistry. It offers an indispensable, up-to-date guide for anyone interested in antioxidants and the role of a plant-based diet in disease prevention and control.

When it comes to injustice, especially racial injustice, rage isn't just an acceptable response-it's crucial in order to fuel the fight for change. Anger has a bad reputation. Many people think that it is counterproductive, distracting, and destructive. It is a negative emotion, many believe, because it can lead so quickly to violence or an overwhelming fury. And coming from people of color, it takes on connotations that are even more sinister, stirring up stereotypes, making white people fear what an angry other might be capable of doing, when angry, and leading them to turn to hatred or violence in turn, to squelch an anger that might upset the racial status quo. According to philosopher Myisha Cherry, anger does not deserve its bad reputation. It is powerful, but its power can be a force for good. And not only is it something we don't have to discourage, it's something we ought to cultivate actively. People fear anger because they paint it in broad strokes, but we can't dismiss all anger, especially not now. There is a form of anger that in fact is crucial in the anti-racist struggle today. This anti-racist anger, what Cherry calls Lordean rage, can use its mighty force to challenge racism: it aims for change, motivates productive action, builds resistance, and is informed by an inclusive and liberating perspective. People can, and should, harness Lordean rage and tap into its unique anti-racist potential. We should not suppress it or seek to replace it with friendly emotions. If we want to effect change, and take down racist structures and systems, we must manage it in the sense of cultivating it, and keeping it focused and strong. Cherry makes her argument for anti-racist anger by putting

Aristotle in conversation with Audre Lorde, and James Baldwin in conversation with Joseph Butler. The Case for Rage not only uses the tools of philosophy to articulate its arguments, but it sharpens them with the help of social psychology and history. The book is philosophically rich and yet highly accessible beyond philosophical spheres, issuing an urgent call to all politically and socially engaged readers looking for new, deeply effective tools for changing the world. Its message will resonate with the enraged and those witnessing such anger, wondering whether it can help or harm. Above all, this book is a resource for the activist coming to grips with a seemingly everyday emotion that she may feel rising up within her and not know what to do with. It shows how to make sure anger doesn't go to waste, but instead leads to lasting, long-awaited change.

The best-selling Distributed Sensor Networks became the definitive guide to understanding this far-reaching technology. Preserving the excellence and accessibility of its predecessor, Distributed Sensor Networks, Second Edition once again provides all the fundamentals and applications in one complete, self-contained source. Ideal as a tutorial for students or as research material for engineers, the book gives readers up-to-date, practical insight on all aspects of the field. Revised and expanded, this second edition incorporates contributions from many veterans of the DARPA ISO SENSIT program as well as new material from distinguished researchers in the field. Sensor Networking and Applications focuses on sensor deployment and networking, adaptive tasking, self-configuration, and system control. In the expanded applications section, the book draws on the insight of practitioners in the field. Readers of this book may also be interested in Distributed Sensor Networks, Second Edition: Image and Sensor Signal Processing (ISBN: 9781439862827).

Machine learning (ML) and deep learning (DL) algorithms are invaluable resources for Industry 4.0 and allied areas and are considered as the future of computing. A subfield called neural networks, to recognize and understand patterns in data, helps a machine carry out tasks in a manner similar to humans. The intelligent models developed using ML and DL are effectively designed and are fully investigated – bringing in practical applications in many fields such as health care, agriculture and security. These algorithms can only be successfully applied in the context of data computing and analysis. Today, ML and DL have created conditions for potential developments in detection and prediction. Apart from these domains, ML and DL are found useful in analysing the social behaviour of humans. With the advancements in the amount and type of data available for use, it became necessary to build a means to process the data and that is where deep neural networks prove their importance. These networks are capable of handling a large amount of data in such fields as finance and images. This book also exploits key applications in Industry 4.0 including: · Fundamental models, issues and challenges in ML and DL. · Comprehensive analyses and probabilistic approaches for ML and DL. · Various applications in healthcare predictions such as mental health, cancer, thyroid disease, lifestyle disease and cardiac arrhythmia. · Industry 4.0 applications such as facial recognition, feather classification, water stress prediction, deforestation control, tourism and social networking. · Security aspects of Industry 4.0 applications suggest remedial actions against possible attacks and prediction of associated risks. - Information is presented in an accessible way for students, researchers and scientists, business innovators and entrepreneurs, sustainable assessment and management professionals. This book equips readers with a knowledge of data analytics, ML and DL techniques for applications defined under the umbrella of Industry 4.0. This book offers comprehensive coverage, promising ideas and outstanding research contributions, supporting further development of ML and DL approaches by applying intelligence in various applications.

With almost twice as many chapters, this new edition of Pediatric Retina now includes important information on the development of the eye and retina, basic/translational science of retinal diseases in infants and children, telemedicine using wide-angle imaging for diagnosis

and longitudinal management of infants and children, as well as international approaches to care with focus on retinopathy of prematurity.

Superhero K, The Arrival, Part 1Notion Press

The field of emergency general surgery encompasses a wide array of surgical diseases, ranging from the simple to the complex. These diseases may include inflammatory, infectious, and hemorrhagic processes spanning the entire gastrointestinal tract. Complications of abdominal wall hernias, compartment syndromes, skin and soft tissue infections, and surgical diseases are significantly complex in special populations, including elderly, obese, pregnant, immunocompromised, and cirrhotic patients. This book covers emergency general surgery topics in a succinct, practical and understandable fashion. After reviewing the general principles in caring for the emergency general surgery patient, this text discusses current evidence and the best practices stratified by organ system, including esophageal, gastroduodenal, hepatobiliary and pancreatic, small and large bowel, anorectal, thoracic, and hernias. Chapters are written by experts in the field and present a logical, straightforward, and easy to understand approach to the emergency general surgery patient, as well as provide patient care algorithms where appropriate. Emergency General Surgery: A Practical Approach provides surgeons and surgery residents with a practical and evidence-based approach to diagnosing and managing a wide array of surgical diseases encountered on emergency general surgery call.

This book comprises select papers presented at the International Conference on Mechanical Engineering Design (ICMechD) 2019. The volume focuses on the recent trends in design research and their applications across the mechanical and biomedical domain. The book covers topics like tribology design, mechanism and machine design, wear and surface engineering, vibration and noise engineering, biomechanics and biomedical engineering, industrial thermodynamics, and thermal engineering. Case studies citing practical challenges and their solutions using appropriate techniques and modern engineering tools are also discussed. Given its contents, this book will prove useful to students, researchers as well as practitioners.

Electricity, Magnetism and Electromagnetic Theory has been designed to meet the needs of BSc (Physics) students as per the UGC Choice Based Credit System. This textbook provides a thorough understanding of the fundamental concepts of electricity, magnetism and electromagnetic theory. Having a problem-solving approach, it covers the entire spectrum of the subject with discussion on topics such as electrostatics, magnetostatics, electromagnetic induction, Maxwell’s equations and electromagnetic wave propagation. The concepts are exhaustively presented with numerous examples and figures/diagrams which would help the students in analysing and retaining the concepts in an effective manner.

Concepts and Methods in Modern Theoretical Chemistry: Electronic Structure and Reactivity, the first book in a two-volume set, focuses on the structure and reactivity of systems and phenomena. A new addition to the series Atoms, Molecules, and Clusters, this book offers chapters written by experts in their fields. It enables readers to learn how concepts from ab initio quantum chemistry and density functional theory (DFT) can be used to describe, understand, and predict electronic structure and chemical reactivity. This book covers a wide range of subjects, including discussions on the following topics: DFT, particularly the functional and conceptual aspects Excited states, molecular electrostatic potentials, and intermolecular interactions General theoretical aspects and application to molecules Clusters and solids, electronic stress, and electron affinity difference The information theory and the virial theorem New periodic tables The role of the ionization potential Although most of the chapters are written at a level that is accessible to a senior graduate student, experienced researchers will also find interesting new insights in these experts’ perspectives. This comprehensive book provides an invaluable resource toward understanding the whole gamut of atoms, molecules,

and clusters.

This book presents the select peer-reviewed proceedings of the International Conference on Signal and Data Processing (ICSDP) 2019. It examines and deliberates on the recent progresses in the areas of communication and signal processing. The book includes topics on the recent advances in the areas of wired and wireless communication, low complexity architecture of MIMO receivers, applications on wireless sensor networks and internet of things, signal processing, image processing and computer vision, VLSI embedded systems, cognitive networks, power electronics and automation, mechatronics based applications, systems and control, cognitive science and machine intelligence, information security and big data. The contents of this book will be useful for beginners, researchers, and professionals interested in the area of communication, signal processing, and allied fields.

Biological materials and their applications have drawn increasing attention among scientists. Cellulose is an abundant, renewable, biodegradable, economical, thermally stable, and light material, and it has found application in pharmaceuticals, coatings, food, textiles, laminates, sensors, actuators, flexible electronics, and flexible displays. Its nano form has extraordinary surface properties, such as higher surface area than cellulose; hence, nanocellulose can be used as a substitute for cellulose. Among many other sustainable, functional nanomaterials, nanocellulose is attracting growing interest in environmental remediation technologies because of its many unique properties and functionalities. Nanocellulose and Its Composites for Water Treatment Applications supplies insight into the application of nanocellulose and its nanocomposites for water purification and remediation. It covers different classes of nanocellulose—cellulose nanocrystal (CNC), microfibrillated cellulose (MFC), hairy cellulose nanocrystalloid (HCNC), and bacterial nanocellulose (BNC)—for their competency with other renewable and carbonaceous materials such as pectin, alginate, and CNTs. Future perspectives of nanocellulose and nanocomposites gleaned from different biodegradable origins are also discussed. This book delves into an updated description of the basic principles and developments in synthesis, characterization methods, properties (chemical, thermal, optical, structural, surface, and mechanical structure), property relationships, crystallization behavior, and degradability of biodegradable nanocomposites. The book also supplies vivid information about various cellulose nanomaterials and their applications in absorbing organic and inorganic toxins, membrane filtration of bacteria, viruses, and ionic impurities, photocatalytic dye removal, and sensing of water toxins. Features Details the synthesis and characterization methods of nanocellulose Illustrates the applications of nanocellulose and its nanocomposites Shows in-depth accounts of the various types of properties of nanocellulose and its composites Features emerging trends in the use of nanocellulose as adsorbents, sensors, membranes, and photocatalysis materials This book will be useful for academics, researchers, and engineers working in water treatment and purification.

Biomass for Bioenergy and Biomaterials presents an overview of recent studies developed specifically for lignocellulose-based production of biofuels, biochemicals, and functional materials. The emphasis is on using sustainable chemistry and engineering to develop innovative materials and fuels for practical applications. Technological strategies for the physical processing or biological conversion of biomass for material production are also presented. FEATURES Offers a comprehensive view of biomass processing, biofuel production, life cycle assessment, techno-economic analysis, and biochemical and biomaterial production Presents details of innovative

strategies to pretreat biomass Helps readers understand the underlying metabolic pathways and identify the best engineering strategies for their native strain Highlights different strategies to make biomaterials from biomass Provides insight into the potential economic viability of the biomass-based process This book serves as an ideal reference for academic researchers and engineers working with renewable natural materials, the biorefining of lignocellulose, and biofuels. It can also be used as a comprehensive reference source for university students in metabolic, chemical, and environmental engineering.

Antibiotic Resistance: Mechanisms and New Antimicrobial Approaches discusses up-to-date knowledge in mechanisms of antibiotic resistance and all recent advances in fighting microbial resistance such as the applications of nanotechnology, plant products, bacteriophages, marine products, algae, insect-derived products, and other alternative methods that can be applied to fight bacterial infections. Understanding fundamental mechanisms of antibiotic resistance is a key step in the discovery of effective methods to cope with resistance. This book also discusses methods used to fight antibiotic-resistant infection based on a deep understanding of the mechanisms involved in the development of the resistance. Discusses methods used to fight antibiotic-resistant infection based on a deep understanding of mechanisms involved in the development of the resistance Provides information on modern methods used to fight antibiotic resistance Covers a wide range of alternative methods to fight bacterial resistance, offering the most complete information available Discusses both newly emerging trends and traditionally applied methods to fight antibiotic resistant infections in light of recent scientific developments Offers the most up-to-date information in fighting antibiotic resistance Includes involvement of contributors all across the world, presenting questions of interest to readers of both developed and developing countries Otology, Neurotology, and Skull Base Surgery: Clinical Reference Guide is a comprehensive guide designed for rapid clinical review. Written in a concise and approachable outline format, this text provides a condensed amount of high-yield information. This clinically relevant resource is organized into 12 sections that are broken down into their most important and fundamental parts by chapter, with key topics such as anatomy and embryology, hearing loss, cochlear implantation, skull base tumors, vestibular disorders, and pediatric otology. Formatted like the bestselling "Pasha" (Otolaryngology-Head and Neck Surgery) pocket guide, this text serves as both a study resource and a portable reference guide. Otology, Neurotology, and Skull Base Surgery can be used by otolaryngology residents on their neurotology rotations, neurotology fellows throughout their training, and otologists and neurotologists preparing for recertification. Audiologists and speech-language pathologists will also benefit from having a convenient reference guide to better understand their patients' diagnoses.

This volume provides a definitive look at heart, lung, and heart-lung transplantation. It includes historical background on these procedures, and discusses the immunological basis of transplantation, organ preservation, donor procurement, pre-transplant recipient management, operative techniques, post-operative care, pathology, special considerations (cystic fibrosis, etc.) lung transplantation (results and complications) and future prospects, including a chapter on xenotransplantation by Columbia's Keith Reemtsma.

All will be revealed.

The book is a collection of high-quality peer-reviewed research papers presented in the Proceedings of International Conference on Power Electronics and Renewable Energy Systems (ICPERES 2014) held at Rajalakshmi Engineering College, Chennai, India. These research papers provide the latest developments in the broad area of Power Electronics and Renewable Energy. The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies.

Teaching at Its Best This third edition of the best-selling handbook offers faculty at all levels an essential toolbox of hundreds of practical teaching techniques, formats, classroom activities, and exercises, all of which can be implemented immediately. This thoroughly revised edition includes the newest portrait of the Millennial student; current research from cognitive psychology; a focus on outcomes maps; the latest legal options on copyright issues; and how to best use new technology including wikis, blogs, podcasts, vodcasts, and clickers. Entirely new chapters include subjects such as matching teaching methods with learning outcomes, inquiry-guided learning, and using visuals to teach, and new sections address Felder and Silverman's Index of Learning Styles, SCALE-UP classrooms, multiple true-false test items, and much more. Praise for the Third Edition of Teaching at Its BestEveryone—veterans as well as novices—will profit from reading Teaching at Its Best, for it provides both theory and practical suggestions for handling all of the problems one encounters in teaching classes varying in size, ability, and motivation."—Wilbert McKeachie, Department of Psychology, University of Michigan, and coauthor, McKeachie's Teaching TipsThis new edition of Dr. Nilson's book, with its completely updated material and several new topics, is an even more powerful collection of ideas and tools than the last. What a great resource, especially for beginning teachers but also for us veterans!"—L. Dee Fink, author, Creating Significant Learning ExperiencesThis third edition of Teaching at Its Best is successful at weaving the latest research on teaching and learning into what was already a thorough exploration of each topic. New information on how we learn, how students develop, and innovations in instructional strategies complement the solid foundation established in the first two editions."—Marilla D. Svinicki, Department of Psychology, The University of Texas, Austin, and coauthor, McKeachie's Teaching Tips

Heart failure is epidemic throughout the world. A growing incidence and prevalence has resulted in a large population of individuals transitioning to advanced stages of the syndrome and requiring uniquely specialised therapies and cardiac transplantation. Oxford Textbook of Advanced Heart Failure and Cardiac Transplantation is a focused and comprehensive work covering this new and rapidly growing cardiovascular subspecialty. Authored by eminent international experts, it is the authoritative text on advanced heart failure and a central resource for clinicians caring for patients with this conditition. By covering a range of characteristics, therapeutic challenges and practical aspects of managing patients this book provides an in-depth source for cardiologists and other related clinicians. A strong focus on the difficult decision making needed to handle advanced heart failure cases, along with specific knowledge of epidemiology, biology and pathophysiology, creates a key tool for optimally managing these complex patients.

This volume is a collection of scholarly papers that explore the complex issues

concerning English Studies in the present Indian context. The discussions in this volume range from historical perspectives to classroom-specific pedagogies, from sociological and political hierarchies to the dynamics of intellectual development in the English language environment. Interrogating both policy and practice pertaining to English Studies in the context of Indian society, culture, history, literature and governance, the chapters seek to formulate contemporary perspectives to these debates and envision alternative possibilities. Since the introduction of English to India more than 2 centuries ago, the language has transmuted the very fabric of Indian society, culture, history, literature and governance. The idea of India cannot be conceived in its entirety without taking into consideration the epistemological role that English has played in its formation. The present globalized world order has added dimensions to English Studies which are radically different from those of India's colonial and postcolonial past. It is therefore imperative that the multitudinous shades and shadows of the discipline be re-examined with inputs drawn from the present context. This volume is for scholars and researchers of English literature and language studies, linguistics, and culture studies, and others interested in exploring new paradigms of engagement with the disciplinary formulation of English Studies in India.
This book comprises of chapters based on design of various advanced nano-catalysts and offers a development of novel solutions for a better sustainable energy future. The book includes all aspects of physical chemistry, chemical engineering and material science. The advances in nanoscience and nanotechnology help to find cost-effective and environmentally sound methods of converting naturally inspired resources into fuels, chemicals and energy. The book leads the scientific community to the most significant development in the focus research area. It provides a broad and in-depth coverage of design and development advanced nano-catalyst for various energy applications.
In this volume, the authors address the development of students' algebraic thinking in the elementary and middle school grades from curricular, cognitive, and instructional perspectives. The volume is also international in nature, thus promoting a global dialogue on the topic of early Algebraization.
Reflecting the rapid growth of nanotechnology research and the potential impact of the growing energy crisis, Energy Efficiency and Renewable Energy Through Nanotechnology provides comprehensive coverage of cutting-edge research in the energy-related fields of nanoscience and nanotechnology, which aim to improve energy efficiency and the generation of renewable energy. Energy Efficiency and Renewable Energy Through Nanotechnology tightly correlates nanotechnology with energy issues in a general, comprehensive way that makes it not only suitable as a desk reference for research, but also as a knowledge resource for the non-expert general public. Readers will find Energy Efficiency and Renewable Energy Through Nanotechnology useful in a variety of ways, ranging from the creation of energy policy, to energy research development, and to education in nanotechnology and its application to energy-related problems. It can also be used as a primary or supplementary textbook for energy-related courses for advanced undergraduate and graduate students.