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Wastewater represents an alternative to freshwater if it can be treated successfully for re-use applications. Promising techniques involve photocatalysis, photodegradation, adsorption, bioreactors, nanocomposites, nanofiltration and membranes. Keywords: Wastewater Treatment, Biohydrogen Production, Bioethanol Production, Biological Wastewater, Carbon Nanotubes, Dairy Wastewater, Graphene-based Nanocomposites, Hormones in Wastewater, Malachite Green Removal, Membrane Bioreactors, Nanocomposites, Nanofiltration, Nanomembranes, Nanotubes, Organic Pollutants, Pesticides Removal, Photocatalysis, Photodegradation, Reversed Osmosis, Textile Wastewater.

In cyber-physical systems (CPS), sensors and embedded systems are networked together to monitor and manage a range of physical processes through a continuous feedback system. This allows distributed computing using wireless devices. *Cyber-Physical Systems—A Computational Perspective* examines various developments of CPS that are impacting our daily lives and sets the stage for future directions in this domain. The book is divided into six sections. The first section covers the physical infrastructure required for CPS, including sensor networks and embedded systems. The second section addresses energy issues in CPS with the use of supercapacitors and reliability assessment. In the third section, the contributors describe the modeling of CPS as a network of robots and explore issues regarding the design of CPS. The fourth section focuses on the impact of ubiquitous computing and cloud computing in CPS and the fifth section discusses security and privacy issues in CPS. The final section covers the role of CPS in big data analytics, social network analysis, and healthcare. As CPS are becoming more complex, pervasive, personalized, and dependable, they are moving beyond niche laboratories to real-life application areas, such as robotics, smart grids, green computing, and healthcare. This book provides you with a guide to current CPS research and development that will contribute to a "smarter" planet.

This book constitutes the proceedings of the First International Conference on Emerging Trends in Engineering (ICETE), held at University College of Engineering and organised by the Alumni Association, University College of Engineering, Osmania University, in Hyderabad, India on 22–23 March 2019. The proceedings of the ICETE are published in three volumes, covering seven areas: Biomedical, Civil, Computer Science, Electrical & Electronics, Electronics & Communication, Mechanical, and Mining Engineering. The 215 peer-reviewed papers from around the globe present the latest state-of-the-art research, and are useful to postgraduate students, researchers, academics and industry engineers working in the respective fields. Volume 1 presents papers on the theme “Advances in Decision Sciences, Image Processing, Security and Computer Vision – International Conference on Emerging Trends in Engineering (ICETE)”.

It includes state-of-the-art technical contributions in the area of biomedical and computer science engineering, discussing sustainable developments in the field, such as instrumentation and innovation, signal and image processing, Internet of Things, cryptography and network security, data mining and machine learning. Continuous improvements in technological applications have allowed more opportunities to develop automated systems. This not only leads to higher success in smart data analysis, but it increases the overall probability of technological progression. The Handbook of Research on Machine Learning Innovations and Trends is a key resource on the latest advances and research regarding the vast range of advanced systems and applications involved in machine intelligence. Highlighting multidisciplinary studies on decision theory, intelligent search, and multi-agent systems, this publication is an ideal reference source for professionals and researchers working in the field of machine learning and its applications.

The Scientific Insight of Maulana Azad
The Civil Court Manual
Limitation Act, art. 52 to Maulana Azad National Urdu University Act / rev. by Jaswant Singh ..
The Limitation Act, 1963, Art, 52 to The Maulana Azad National Urdu University Act, 1996
Abul Kalam Azad
Vision and Action
Design and Use of Virtualization
Technology in Cloud Computing
IGI Global

"DSSSB Trained Graduate Teacher Hindi Written Exam" has been designed to give the complete coverage of the syllabus as per the exam pattern. The syllabus in this book is divided into 6 Units and further into chapters that help learners to understand each concept of each subject easily. Theories and MCQs have been provided in the book in a Chapter wise manner in which every concept, doubt and query can be cleared simultaneously without putting any extra efforts moreover due to this benefit candidates can do revision hand-to-hand. The level of the questions are according to the latest test pattern in this book. Solutions provided in this book is written in a lucid form which is easy to understand by students and help them to learn the answer writing skills.

This volume of Who's Who in Research series offer a useful guide for current researchers in Intellect's subject area of Film Studies. The directory holds the names, institutions, biographies and current research interests of hundreds of leading international academics as well as references to the researchers' principal articles in Intellect journals.

Sensors for Health Monitoring discusses the characteristics of U-Healthcare systems in different domains, providing a foundation for working professionals and undergraduate and postgraduate students. The book provides information and advice on how to choose the best sensors for a U-Healthcare system, advises and guides readers on how to overcome challenges relating to data acquisition and signal processing, and presents comprehensive coverage of up-to-date requirements in hardware, communication and calculation for next-generation uHealth systems. It then compares new technological and technical trends and discusses how they address expected u-Health requirements. In

addition, detailed information on system operations is presented and challenges in ubiquitous computing are highlighted. The book not only helps beginners with a holistic approach toward understanding u-Health systems, but also presents researchers with the technological trends and design challenges they may face when designing such systems. Presents an outstanding update on the use of U-Health data analysis and management tools in different applications, highlighting sensor systems Highlights Internet of Things enabled U-Healthcare Covers different data transmission techniques, applications and challenges with extensive case studies for U-Healthcare systems

There is great interest in recent scholarship in the study of metropolitan cultures in India as evident from the number of books that have appeared on cities such as Delhi, Mumbai, Chennai and Kolkata. Though Hyderabad has a rich archive of history scattered in many languages, very few attempts have been made to bring this scholarship together. The papers in this volume bring together this scholarship at one place. They trace the contribution of different languages and literary cultures to the multicultural mosaic that is the city of Hyderabad How it has acquired this uniqueness and how it has been sustained is the subject matter of literary cultures in Hyderabad. This work attempts to trace some aspects of the history of major languages practiced in the city. It also reviews the contribution of the various linguistic groups that have added to the development not just of varied literary cultures, but also to the evolution of an inclusive Hyderabad culture. The present volume, it is hoped, will enthuse both younger and senior scholars and students to take a fresh look at the study of languages and literary cultures as they have evolved in India's cities and add to the growing scholarship of metropolitan cultures in India.

Trace Amines and Neurological Disorders: Potential Mechanisms and Risk Factors explores trace amines which, under normal conditions, are present in the mammalian brain and peripheral nervous tissues at very low (nanomolar) concentrations. However, in a diverse array of human pathologies ranging from substance abuse, depression, attention deficit hyperactivity disorder, eating disorders, schizophrenia, and other neurological and neuropsychiatric diseases, the levels of trace amines are unusually high with an imbalance in their functions. Furthermore, the rapid turnover of trace amines is evidenced by their dramatic increases following treatment with monoamine oxidase inhibitors (MAOI) or deletion of the MAO genes. This suggests that the concentration of trace amines may be considerably higher at neuronal synapses than predicted by steady-state measures, implicating some pathophysiological role. Therefore, understanding molecular mechanisms and developing selective agonists and antagonists for trace amine-associated receptors (TAARs) has become a good approach for treating these diseases. Although the effects of trace amines at low physiological concentrations in mammalian species have been difficult to demonstrate, they may serve to maintain the neuronal activity of other monoamine neurotransmitters by possessing postsynaptic modulatory effects, particularly

dopamine and serotonin, within defined physiological limits. Such an effect of trace amines makes them ideal candidates for the development of novel therapeutics for a wide range of human disorders. This book presents up-to-date, cutting-edge, and comprehensive information on the link between trace amines and neurological disorders. Focuses on recent findings on trace amines, providing insights into the functional significance, molecular mechanisms, and biological relevance of TAARS in neurological disorders Edited work with chapters authored by leaders in the field from around the globe, the broadest, most expert coverage available Provides cutting-edge research on trace amines-mediated signaling in vertebrate model systems

The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

‘Caste is Race in Ancient Times, Race is Caste in Modern Times, Untouchability is an Aryan Construct. They said God has not created Untouchables.’ Kancha Ilaiah Shepherd goes on to say, ‘Many people from the Brahmin–Baniya castes have written about their own greatness in their autobiographies, in English and in the regional languages. But I have not seen even a single autobiography of a person born and brought up in the shepherd community’. He adds that it is in writing about themselves that people gain a sense of self-respect. Shepherd’s evocative memoirs reveal the struggle for education and dignity that a great majority of Indians undergo. As a little boy herding sheep and goats, he and his brother were the first to go to school. The author writes of his long and often interrupted journey to becoming a writer and an intellectual, without support and having to overcome adversities.

Today, gender inequality and diversity are at the forefront of discussion, as the issue has become an international concern for politicians, government agencies,

social activists, and the general public. Consequently, the need to foster and sustain diversity and inclusiveness in the interactions among various groups of people is relevant today more than ever. *Gender and Diversity: Concepts, Methodologies, Tools, and Applications* provides a critical look at gender and modern-day discrimination and solutions to creating sustainable diversity across numerous contexts and fields. Highlighting a range of topics such as anti-discrimination measures, workforce diversity, and gender inequality, this multi-volume book is designed for legislators and policy makers, practitioners, academicians, gender studies researchers, and graduate-level students interested in all aspects of gender and diversity studies.

Maulana Abul Kalam Azad was a scholar, intellectual, and nationalist who fought against British imperialists by drawing inspiration from the Koran. Twenty years before the freedom movement took hold in India, the man whom Mohammad Ali Jinnah dismissed as the 'Showboy of Indian National Congress' was already involved in the struggle for independence. This book examines the life of Azad, his solutions to the crisis of Muslims of India, and his role in the independence struggle as a leader of the Indian National Congress.

Due to the growing use of web applications and communication devices, the use of data has increased throughout various industries, including business and healthcare. It is necessary to develop specific software programs that can analyze and interpret large amounts of data quickly in order to ensure adequate usage and predictive results. *Cognitive Analytics: Concepts, Methodologies, Tools, and Applications* provides emerging perspectives on the theoretical and practical aspects of data analysis tools and techniques. It also examines the incorporation of pattern management as well as decision-making and prediction processes through the use of data management and analysis. Highlighting a range of topics such as natural language processing, big data, and pattern recognition, this multi-volume book is ideally designed for information technology professionals, software developers, data analysts, graduate-level students, researchers, computer engineers, software engineers, IT specialists, and academicians.

The contributions to this book amply demonstrate the richness, vitality, and complexity of the colonial transactions between Britain and India over the last two centuries, and they do so by approaching the topic from a specific perspective: by interpreting the rubric 'new readings' as broadly, creatively, and productively as possible. They cover a wide range of literary responses and genres: eighteenth-century drama, the gothic novel, verse, autobiography, history, religious writing, journalism, women's memoirs, travel writing, popular fiction, and the modernist novel. Brought together in one volume, these essays offer a small, but representative sample of the multifaceted literary and cultural traffic between Britain and India in the colonial period. In the richness and diversity of the various contributors' strategies and interpretations, these new readings urge us to return once again to texts that we think we know, as well as to explore those that we do not, with a freshly renewed sense of their complexity, immediacy, and relevance.

The growing importance of knowledge, research, innovation and evolving perspectives on expertise with the usage of Information Communication Technologies (ICT) are changing the sociology of knowledge in the globalized world. Universities are the major institutions involved in the production and dissemination of knowledge. This book looks at ICT for education initiatives taken up towards building a Knowledge Society as emphasized in national education policy regimes for encouraging knowledge generation, knowledge acquisition, knowledge

diffusion and the exploitation of knowledge. The research examines the present practice of ICT adoption in an existing framework of University of Hyderabad (UOH) and Tezpur University (TZU) through intensive case study. The research attempts to analyze issues of knowledge, governance and access using ICT; the application of communication technologies in Higher Education Sector that helps in fulfilling the goal of a Knowledge Society; the communication process and strategies in the networking of higher education into a Knowledge Society; existing 'digital divide' and the implications. The Stakeholder's perspective further highlights the advantages and the challenges faced in the actual implementation of ICT4E. Based on the study, the research offers recommendations for management, human resources, processes and institutional culture in ICT4E implementation.

This book details an intensive case study of an Indian state that is more or less representative of the Muslim minorities in the country as a whole. The northern Indian province under study has a fair amount of Muslim population with a good number of educational institutions at different levels and grades. These institutions provide both traditional and modern education, which highlights the delicacies of the problems faced when promoting higher education in a comprehensive and inclusive way. This book is a detailed investigation based on a case study and surveys and interaction with many stakeholders including students, teachers and principals. The findings presented here will be useful in reshaping and revamping minority higher education plans in India, as well as policies related to these institutions.

This book discusses the applications of different soft computing techniques for the web-based systems and services. The respective chapters highlight recent developments in the field of soft computing applications, from web-based information retrieval to online marketing and online healthcare. In each chapter author endeavor to explain the basic ideas behind the proposed applications in an accessible format for readers who may not possess a background in these fields. This carefully edited book covers a wide range of new applications of soft computing techniques in Web recommender systems, Online documents classification, Online documents summarization, Online document clustering, Online market intelligence, Web usage profiling, Web data extraction, Social network extraction, Question answering systems, Online health care, Web knowledge management, Multimedia information retrieval, Navigation guides, User profiles extraction, Web-based distributed information systems, Web security applications, Internet of Things Applications and so on. The book is aimed for researchers and practitioner who are engaged in developing and applying intelligent systems principles for solving real-life problems. Further, it has been structured so that each chapter can be read independently of the others.

"DSSSB Nursery Teacher Written Exam" has been designed to give the complete coverage of the syllabus as per the exam pattern. The syllabus in this book is divided into 6 Units and further into chapters that help learners to understand each concept of each subject easily. Theories and MCQs have been provided in the book in a Chapter wise manner in which every concept, doubt and query can be cleared simultaneously without putting any extra efforts moreover due to this benefit candidates can do revision hand-to-hand. The level of the questions are according to the latest test pattern in this book. Solutions provided in this book is written in a lucid form which is easy to understand by students and help them to learn the answer writing skills.

Education plays a vital role in the positive development of communities at both a local and global level. By becoming more informed, citizens can make better contributions to society. Open and Distance Learning Initiatives for Sustainable Development is a critical reference source for emerging academic perspectives on the role of higher education programs in contemporary society. Including a range of pertinent topics such as mobile learning, environmental education, and community building, this book is ideally designed for educators, researchers, students, and professionals interested in the intersection between sustainable

development and education.

In the age of Islamophobia, Madrasas are at crossroads—infamously labelled as ‘dens for terrorism’ where the ‘youth are misguided, motivated and recruited to resort to anti-Indian activities’. It is little known that in the golden past, Madrasas schooled reformers and personalities such as Rajendra Prasad, Motilal Nehru, Raja Rammohun Roy and many other noteworthy Islamic scholars. Through bonafide stories of products of Madrasas, the authors narrate the decline of the madrasas from being centres of excellence to institutions of restricted learnings with dark clouds of stigma surrounding them. Short of resources, rejected by the well-heeled, and condemned by politicians, will they be able to turn the corner? The answer is blowing in the wind.

Opportunistic networks allow mobile users to share information without any network infrastructure. This book is suitable for both undergraduates and postgraduates as it discusses various aspects of opportunistic networking including, foundations of ad hoc network; taxonomy of mobility models, etc.

"DSSSB Primary Teacher Written Exam" has been designed to give the complete coverage of the syllabus as per the exam pattern. The syllabus in this book is divided into 6 Units and further into chapters that help learners to understand each concept of each subject easily. Theories and MCQs have been provided in the book in a Chapter wise manner in which every concept, doubt and query can be cleared simultaneously without putting any extra efforts moreover due to this benefit candidates can do revision hand-to-hand. The level of the questions are according to the latest test pattern in this book. Solutions provided in this book is written in a lucid form which is easy to understand by students and help them to learn the answer writing skills.

The volume attempts to gauge and analyse the level of denial and deprivation faced by Indian Muslims by evaluating their status after a gap of several years of Sachar Committee (2006) and Rangnath Mishra Commission (2007) Reports. It presents and discusses the current conditions with respect to outcome indicators such as population, education, economy, poverty, unemployment, consumption level, availability of bank loans, infrastructure and civic facilities and representation in government employment. By placing facts in perspective, it also discusses community-specific issues such as use of Urdu, madrasa education and Waqf. In the post-Sachar era, governments started many schemes to improve the condition of Muslims whose reach and impact is assessed with the help of latest data. It presents the social structure of Muslims, presence of OBCs and Dalits and suggests a practical pattern for reservation. It follows up the process of implementation of recommendations of these reports and highlights how the governments adopted tokenism, attempted to implement minor recommendations and shied away from major ones. The volume highlights the lopsided attitude of the previous UPA governments, hostile attitude of the present NDA regime and accelerated marginalization of Muslims in today's scenario due to open discrimination, mob-violence, lynching and hate crimes in the name of various communal issues. Please note: Taylor & Francis does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka

Dimensions of Social Exclusion focuses largely on social exclusion in the context of communities and social groups who have or have not been considered in discussing the benefits of mainstream inclusive society or development. Contemporary understanding of social exclusion has revived great interest among academics,

researchers and policy makers in understanding problems from the perspectives of social exclusion. The decision to adopt the perspective of social exclusion has not been universal; rather the nature of this is very heterogeneous. In addition, the concept of social exclusion is not static; in reality, it is a process. The process is seen in the marginalization and discrimination of people in their everyday lives and interactions. The term 'exclusion' has become a part of the vocabulary in Europe and other developing societies like 'poverty' or 'unemployment'; it is one of those words which seem to have both an everyday meaning and an underlying sense. It emphasizes the social aspects of concerns such as housing, health, employment, education, participation in social activities and festivities, social interaction and social intercourse. It excludes certain communities and groups from interaction and access to social resources through social arrangements, normative value systems and customs. Exclusion based on caste is one example and patriarchy is another, which is a form of systemic or constitutive exclusion. Having social, cultural, political and economic ramifications, it is also a complex and multi-dimensional concept. These dimensions are interwoven and are addressed in the different papers of the volume. This book revolves around the societal interventions and institutions that exclude, discriminate, isolate and deprive some groups on the basis of group identities such as caste or ethnicity. It covers a wide spectrum of societies and communities living in various cultural environments. The multidisciplinary nature of the book will render it helpful to students and researchers of sociology, anthropology, historical and political studies, demography, social work and gender studies in particular and the humanities in general.

Cyber security is the protection of information systems, hardware, software, and information as well from theft, damages, interruption or misdirection to any of these resources. In other words, cyber security focuses on protecting computers, networks, programs and data (in use, in rest, in motion) from unauthorized or unintended access, change or destruction. Therefore, strengthening the security and resilience of cyberspace has become a vital homeland security mission. Cyber security attacks are growing exponentially. Security specialists must occupy in the lab, concocting new schemes to preserve the resources and to control any new attacks. Therefore, there are various emerging algorithms and techniques viz. DES, AES, IDEA, WAKE, CAST5, Serpent Algorithm, Chaos-Based Cryptography McEliece, Niederreiter, NTRU, Goldreich–Goldwasser–Halevi, Identity Based Encryption, and Attribute Based Encryption. There are numerous applications of security algorithms like cyber security, web security, e-commerce, database security, smart card technology, mobile security, cloud security, digital signature, etc. The book offers comprehensive coverage of the most essential topics, including: Modular Arithmetic, Finite Fields Prime Number, DLP, Integer Factorization Problem Symmetric Cryptography Asymmetric Cryptography Post-Quantum Cryptography Identity Based Encryption Attribute Based Encryption Key Management Entity Authentication, Message Authentication Digital Signatures Hands-On "SageMath" This book serves as a textbook/reference book for UG, PG, PhD students, Teachers, Researchers and Engineers in the disciplines of Information Technology, Computer Science and Engineering, and Electronics and Communication Engineering.

Cloud computing is rapidly expanding in its applications and capabilities through

various parts of society. Utilizing different types of virtualization technologies can push this branch of computing to even greater heights. *Design and Use of Virtualization Technology in Cloud Computing* is a crucial resource that provides in-depth discussions on the background of virtualization, and the ways it can help shape the future of cloud computing technologies. Highlighting relevant topics including grid computing, mobile computing, open source virtualization, and virtualization in education, this scholarly reference source is ideal for computer engineers, academicians, students, and researchers that are interested in learning more about how to infuse current cloud computing technologies with virtualization advancements.

Constant improvements in technological applications have allowed for more opportunities to develop automated systems. This not only leads to higher success in smart data analysis, but also ensures that technological progression will continue. *Ubiquitous Machine Learning and its Applications* is a pivotal reference source for the latest research on the issues and challenges machines face in the new millennium. Featuring extensive coverage on relevant areas such as computational advertising, software engineering, and bioinformatics, this publication is an ideal resource for academicians, graduate students, engineering professionals, and researchers interested in discovering how they can apply these advancements to various disciplines.

This book discusses the advanced databases for the cloud-based application known as NoSQL. It will explore the recent advancements in NoSQL database technology. Chapters on structured, unstructured and hybrid databases will be included to explore bigdata analytics, bigdata storage and processing. The book is likely to cover a wide range of topics such as cloud computing, social computing, bigdata and advanced databases processing techniques. Cloud technologies have revolutionized the way we store information and perform various computing tasks. With the rise of this new technology, the ability to secure information stored on the cloud becomes a concern. *The Handbook of Research on Securing Cloud-Based Databases with Biometric Applications* explores the latest innovations in promoting cloud security through human authentication techniques. Exploring methods of access by identification, including the analysis of facial features, fingerprints, DNA, dental characteristics, and voice patterns, this publication is designed especially for IT professionals, academicians, and upper-level students seeking current research surrounding cloud security.

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