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This book provides a clear understanding in formulating stability analysis and state feedback control of retarded time delay systems using Lyapunov's second method in an LMI framework. The chapters offer a clear overview of the evolution of stability analysis in terms of the construction of a Lyapunov functional and use of the integral inequalities in order to reduce the gap of delay upper bound estimate compared to frequency domain method through existing and proposed stability theorems. Power system engineering problem has been presented here to give readers fair idea on applicability of the model and method for solving engineering problems. Without deviating from the framework of analysis more complex dynamics of the system have been dealt with here that includes actuator saturation and thereby ascertaining local stability for an estimated time-delay and domain of attraction. Nonlinearity in a time-delay system has been dealt with in the T-S fuzzy modeling approach. This book is useful as a textbook for Master's students and advanced researcher working in the field of control system engineering, and for practicing engineers dealing with such complex dynamical systems. The strengths of the book are lucidity of presentation, lucidity of solution method, MATLAB programs given in the appendix that help the novice researcher to carry out research in this area independently, clear idea about the formulation of desired stability and control problem in a LMI framework, application problem provided can motivate students and researcher to recast their problems in the similar framework easily, helpful for readers to use the stability (stabilization) conditions or formulate their own stability conditions easily for a complicated linear or

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nonlinear dynamical system.

The book covers recent trends in the field of devices, wireless communication and networking. It presents the outcomes of the International Conference in Communication, Devices and Networking (ICCDN 2018), which was organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India on 2–3 June, 2018. Gathering cutting-edge research papers prepared by researchers, engineers and industry professionals, it will help young and experienced scientists and developers alike to explore new perspectives, and offer them inspirations on addressing real-world problems in the field of electronics, communication, devices and networking.

"Identity in Question: The Study of Tibetan Refugees in Indian Himalayas" focuses on the socio-economic profile and the question of identity among the diasporic Tibetan communities, particularly those settled in Indian Himalaya. Through incorporating the notion of integration, essential in the formation and formulation of an individual's identity, this book explores Tibetan refugees' feelings as to whether a shared consensus between themselves and others exists, or whether a sense of dislocation is experienced. This important and timely work also sheds light on the question of identity crisis among Tibetan youths as well as conflicting gender role identity of the Tibetan women refugees. Delving into such topics is essential for the increased understanding of the various situations encountered by the diasporic communities of Tibet. Therefore, individuals who are seeking to understand the issue by means of academic engagement and through a policy framework process will benefit from this work.

Salient Features of 20+ Sample Papers English Class 10 1. The book is designed strictly as per the Reduced CBSE Syllabus released on 7th July, 2020; Circular No.: Acad -

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47/2020. 2. All Sample Papers are based on the latest CBSE Sample Question Paper 2021 released on 9th October, 2020; Circular 3. Solution of CBSE Sample Question Paper 2021 and 10 Sample Papers are given. 4. 10 Unsolved Sample Papers are given for ample practice. Students will be able to access the solutions of these papers by scanning the QR Code given at the back of the book.

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The agricultural sector can benefit immensely from developments in the field of smart farming. However, this research area focuses on providing specific fixes to particular situations and falls short on implementing data-driven frameworks that provide large-scale benefits to the industry as a whole. Using deep learning can bring immense data and improve our understanding of various earth sciences and improve farm services to yield better crop production and profit.

Smart Agricultural Services Using Deep Learning, Big Data, and IoT is an essential publication that focuses on the application of deep learning to agriculture. While highlighting a broad range of topics including crop models, cybersecurity, and sustainable agriculture, this book is ideally designed for engineers, programmers, software developers, agriculturalists, farmers, policymakers, researchers, academicians, and students.

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Antibiotic Basics for Clinicians, South Asian Edition, simplifies the antibiotic selection process for the clinicians with up-to-date information on the latest and most clinically relevant antibacterial medications. This time-saving resource helps medical students master the rationale behind antibiotic selection for common

A Deep Dive into NoSQL Databases: The Use Cases and Applications, Volume 109, the latest release in the Advances in Computers series first published in 1960, presents detailed coverage of innovations in computer hardware, software, theory, design and applications. In addition, it provides contributors with a medium in which they can explore their subjects in greater depth and breadth. This update includes sections on NoSQL and NewSQL databases for big data analytics and distributed computing, NewSQL databases and scalable in-memory analytics, NoSQL web crawler application, NoSQL Security, a Comparative Study of different In-Memory (No/New)SQL Databases, NoSQL Hands On-4 NoSQLs, the Hadoop Ecosystem, and more. Provides a very comprehensive, yet compact, book on the popular domain of NoSQL databases for IT professionals, practitioners and professors Articulates and accentuates big data analytics and how it gets simplified and streamlined by NoSQL database systems Sets a stimulating foundation with all the relevant details for NoSQL database researchers, developers and administrators

This book bridges the gap between the demand for micro-featured components on the one hand, and successful micromachining of miniature products on the other. In addition to covering micromachining in the broader sense, it specifically addresses novel machining strategies implemented in various advanced micromachining processes to improve machining accuracy, energy consumption,

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component durability, and miniature-scale applicability. The book's main goal is to present the capabilities of advanced micromachining processes in terms of miniature product manufacturing by highlighting various innovative machining strategies that can be used to augment the production scale and precision alike.

The book presents new approaches and methods for solving real-world problems. It offers, in particular, exploratory research that describes novel approaches in the fields of Cognitive Informatics, Cognitive Computing, Computational Intelligence, Advanced Computing, Hybrid Intelligent Models and Applications. New algorithms and methods in a variety of fields are also presented, together with solution-based approaches. The topics addressed include various theoretical aspects and applications of Computer Science, Artificial Intelligence, Cybernetics, Automation Control Theory and Software Engineering.

Given the increasing need to optimize resources sustainably, decision-makers face challenges in analyzing and considering the numerous factors involved. This book makes an effort to present and concentrate on the challenges in decision-making processes for green and sustainable engineering. Through a collection of case studies such as evaluation of waste assessment and drainage system, sustainable building assessment, renewable energy selection, materials and manufacturing process optimization, and crop pattern influence in environmental and economic conditions, readers can learn how to apply cutting-edge Multiple-Criteria Decision Making (MCDM) methods in addressing complexities involved in the decision-making process.

The dynamic economic climate invites participants who are grounded in strategic financial management and infrastructure development. Thus, a lack of sufficient infrastructure, in both quality and quantity, often disqualifies

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developing countries from being key players in the global economy and influences other socioeconomic problems like unemployment, quality of work life, and quality of life. Handbook of Research on Strategic Business Infrastructure Development and Contemporary Issues in Finance discusses the efficiency of good infrastructure and its impact on socioeconomic growth and socioeconomic development in general and addresses contemporary aspects of the strategic financial management essential for accomplishing the objective of wealth maximization in today's challenging and competitive economy. This book is an essential research work for policy makers, government workers and NGO employees, as well as academicians and researchers in the fields of business, finance, marketing, management, accounting, MIS, public administration, economics, and law. Student assessment in online learning is submitted remotely without any face-to-face interaction, and therefore, student authentication is widely seen as one of the major challenges in online examination. Authentication is the process of determining whether someone or something is, in fact, who or what it is declared to be. As the dependence upon computers and computer networks grows, especially within education, the need for authentication has increased. Biometric Authentication in Online Learning Environments provides innovative insights into biometrics as a strategy to mitigate risk and provide authentication, while introducing a framework that provides security to improve e-learning and on-line examination by utilizing biometric-based authentication techniques. This book examines e-learning, security, threats in online exams, security considerations, and biometric technologies, and is designed for IT professionals, higher education administrators, professors, researchers, business professionals, academicians, and libraries seeking topics centered on biometrics as an authentication strategy within

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educational environments.

In the increasingly turbulent political climate, there has been growing interest in economic and international relations with Asia. Understanding the business practices in countries of this region, particularly uncertainties, risks, and opportunities associated with doing business in Asia, will be key for competing in a global economy. *Dynamic Perspectives on Globalization and Sustainable Business in Asia* provides perspectives on the challenges and opportunities of business growth in Asia with strategic insights on knowledge production, innovation, and disruptive technologies. Featuring coverage on a broad range of topics such as consumer behavior, financial literacy, and value perception, this book is ideally designed for academicians, researchers, government officials, policymakers, and practitioners seeking current research on the development of networks to support competitive advantage in the global economy and viable enterprises.

The volume, complexity, and irregularity of computational data in modern algorithms and simulations necessitates an unorthodox approach to computing. Understanding the facets and possibilities of soft computing algorithms is necessary for the accurate and timely processing of complex data.

Research Advances in the Integration of Big Data and Smart Computing builds on the available literature in the realm of Big Data while providing further research opportunities in this dynamic field. This publication provides the resources necessary for technology developers, scientists, and policymakers to adopt and implement new paradigms in computational methods across the globe. The chapters in this publication advance the body of knowledge on soft computing techniques through topics such as transmission control protocol for mobile ad hoc networks, feature extraction, comparative analysis of filtering techniques, big data in

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economic policy, and advanced dimensionality reduction methods.

This book comprises select proceedings of the international conference ETAEERE 2020, and primarily focuses on renewable energy resources and smart grid technologies. The book provides valuable information on the technology and design of power grid integration on microgrids of green energy sources. Some of the topics covered include solar PV array, hybrid microgrid, daylight harvesting, green computing, photovoltaic applications, nanogrid applications, AC/DC/AC converter for wind energy systems, solar photovoltaic panels, PEM fuel cell system, and biogas run dual-fueled diesel engine. The contents of this book will be useful for researchers and practitioners working in the areas of smart grids and renewable energy generation, distribution, and management.

An authoritative guide to an in-depth analysis of various state-of-the-art data clustering approaches using a range of computational intelligence techniques *Recent Advances in Hybrid Metaheuristics for Data Clustering* offers a guide to the fundamentals of various metaheuristics and their application to data clustering. Metaheuristics are designed to tackle complex clustering problems where classical clustering algorithms have failed to be either effective or efficient. The authors—noted experts on the topic—provide a text that can aid in the design and development of hybrid metaheuristics to be applied to data clustering. The book includes performance analysis of the hybrid metaheuristics in relationship to their conventional counterparts. In addition to providing a review of data clustering, the authors include in-depth analysis of different optimization algorithms. The text offers a step-by-step guide in the build-up of hybrid metaheuristics and to enhance comprehension. In addition, the book contains a range of real-life case studies and their applications. This

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important text: Includes performance analysis of the hybrid metaheuristics as related to their conventional counterparts Offers an in-depth analysis of a range of optimization algorithms Highlights a review of data clustering Contains a detailed overview of different standard metaheuristics in current use Presents a step-by-step guide to the build-up of hybrid metaheuristics Offers real-life case studies and applications Written for researchers, students and academics in computer science, mathematics, and engineering, Recent Advances in Hybrid Metaheuristics for Data Clustering provides a text that explores the current data clustering approaches using a range of computational intelligence techniques.

This book presents high-quality papers from an international forum for research on computational approaches to learning. It includes current research and findings from various research labs, universities and institutions that may lead to development of marketable products. It also provides solid support for these findings in the form of empirical studies, theoretical analysis, or comparison to psychological phenomena. Further, it features work that shows how to apply learning methods to solve important application problems as well as how machine learning research is conducted. The book is divided into two main parts: Machine Learning Techniques, which covers machine learning-related research and findings; and, Data Analytics, which introduces recent developments in this domain. Additionally, the book includes work on data analytics using machine learning techniques. As marketing strategies remain an essential tool in the success of an organization or business, the study of consumer-centered behavior is valuable in the improvement of these strategies. Cases on Consumer-Centric Marketing Management presents a collection of case studies highlighting the importance of customer loyalty, customer

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satisfaction, and consumer behavior for marketing strategies. This comprehensive collection provides fundamental research for professionals and researchers in the fields of customer relations, marketing communication, consumer research, and marketing analytics for insights into practical aspects of marketing in any organization.

Fully revised, new edition presenting students with latest advances in field of biochemistry. Features clinical case studies, MCQs, short questions, essays and viva voce questions for revision.

Joining previous editions on other Indian states, this report focuses on Sikkim, a state that is a popular tourist destination for its culture, scenic beauty, and biodiversity. Analyzing the entire range of the state's development issues of interest to businesses, nongovernmental organizations, research organizations, and policy makers, this volume discusses the constraints and challenges faced by Sikkim and provides a blueprint for its socioeconomic progress.

Focusing on soft computing techniques and application in various engineering research domains, this book presents the state-of-the-art outcomes from ongoing research works being conducted in various research laboratories and educational institutions. The included research works deal with estimated models and give resolutions to complex real-life issues. In the field of evolutionary computing and other domains of applications, such as, data mining and fuzzy logic, soft computing techniques play an incomparable role, where it successfully handles contemporary computationally intensive and complex problems that have usually appeared to be inflexible to traditional mathematical methods. Comprising the concepts and applications of soft computing with other emerging research domains, this book cherishes varieties of modern applications in the fields of natural language processing, image processing, biomedical engineering,

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communication, control systems, circuit design etc. .

This book is an outcome of the second national conference on Communication, Cloud and Big Data (CCB) held during November 10-11, 2016 at Sikkim Manipal Institute of Technology. The nineteen chapters of the book are some of the accepted papers of CCB 2016. These chapters have undergone review process and then subsequent series of improvements. The book contains chapters on various aspects of communication, computation, cloud and big data. Routing in wireless sensor networks, modulation techniques, spectrum hole sensing in cognitive radio networks, antenna design, network security, Quality of Service issues in routing, medium access control protocol for Internet of Things, and TCP performance over different routing protocols used in mobile ad-hoc networks are some of the topics discussed in different chapters of this book which fall under the domain of communication. Moreover, there are chapters in this book discussing topics like applications of geographic information systems, use of radar for road safety, image segmentation and digital media processing, web content management system, human computer interaction, and natural language processing in the context of Bodo language. These chapters may fall under broader domain of computation. Issues like robot navigation exploring cloud technology, and application of big data analytics in higher education are also discussed in two different chapters. These chapters fall under the domains of cloud and big data, respectively.

With the increased functionality demand for mobile speed and access in our everyday lives, broadband wireless networks have emerged as the solution in providing high data rate communications systems to meet these growing needs. Broadband Wireless Access Networks for 4G: Theory, Application, and Experimentation presents the latest trends and research on mobile ad hoc networks, vehicular ad hoc

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networks, and routing algorithms which occur within various mobile networks. This publication smartly combines knowledge and experience from enthusiastic scholars and expert researchers in the area of wideband and broadband wireless networks. Students, professors, researchers, and other professionals in the field will benefit from this book's practical applications and relevant studies.

This book is a collection of research articles and critical review articles, describing the overall approach to energy management. The book emphasizes the technical issues that drive energy efficiency in context of power systems. This book contains case studies with and without solutions on modelling, simulation and optimization techniques. It covers some innovative topics such as medium voltage (MV) back-to-back (BTB) system, cost optimization of a ring frame unit in textile industry, rectenna for radio frequency (RF) energy harvesting, ecology and energy dimension in infrastructural designs, 2.4 kW three-phase inverter for aircraft application, study of automatic generation control (AGC) in a two area hydrothermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line communication using LabVIEW. This book is primarily targeted at researchers and senior graduate students, but is also highly useful for the industry professional and scientists.

Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations,

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study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.

This volume comprises select proceedings of ETAEERE-2016. The volume offers state-of-the-art chapters on energy management systems (EMS), renewable energy resources, micro-generation, green communications architectures and frameworks, green computing and education as well as energy-aware process optimization. The contents covers a wide variety of topics and aspects including management of renewable energy systems and environmental challenges. The contents of this volume will be useful to researchers and practicing engineers working in the areas of smart grids and renewable energy generation, distribution, and management.

The marketing of a destination necessitates strategic planning, decision making, and organization. Effective positioning will result in a strong brand that develops an emotional and productive two-way relationship.

Notwithstanding, destination managers should possess relevant knowledge and understanding on traditional and contemporary marketing channels to better engage with prospective visitors. *Destination Management and Marketing: Breakthroughs in Research and Practice* focuses on utilizing destination branding and content marketing for sustainable growth and competitive advantage within the tourism and hospitality industry, including tools and techniques for travel branding and best practices for better tourism management strategies. Highlighting a range of topics such as service quality, sustainable tourism, and competitiveness model, this publication is an ideal reference source for government officials, travel agencies, advertisers, marketers, tour directors, hotel managers, restaurateurs, industry

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professionals including those within the hotel, leisure, transportation, and theme park sectors, policymakers, practitioners, academicians, researchers, and students. Fair skin sells the cream Trendy women sell the scooter Dashing men sell the car Seductive gestures can sell almost anything If media only mirrors reality, is advertising then guilty of misogyny, voyeurism and objectification of women? In an attempt to look at Indian ads across various brand categories with a gender lens based on societal and sociological perspectives, *The Beauty Paradigm: Gender Discourse in Indian Advertising* deconstructs the quintessential Indian woman that the advertising industry depicts across the spectrum. Drawing insights from a seminal research study and Erving Goffman's classic book 'Gender Advertisements', this book traces the journey of a few decades to map trends and patterns in Indian advertising and presents the perspectives of the creative teams and top managements across Indian and global agencies.

This Book Explores The Ways To Address The Problem Of Deterioration Of Bio-Cultural Diversity In North East Indian In The Name Of Development. It Discusses At Length The Linkage Between Environmental Quality And Economic Growth.

The development of business intelligence has enhanced the visualization of data to inform and facilitate business management and strategizing. By implementing effective data-driven techniques, this allows for advance reporting tools to cater to company-specific issues and challenges. *The Handbook of Research on Advanced Data Mining Techniques and Applications for Business Intelligence* is a key resource on the latest advancements in business applications and the use of mining software solutions to achieve optimal decision-making and risk management results. Highlighting innovative studies on data warehousing,

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business activity monitoring, and text mining, this publication is an ideal reference source for research scholars, management faculty, and practitioners.

This book presents the outcomes of the Third National Conference on Communication, Cloud and Big Data (CCB) held on November 2–3, 2018, at Sikkim Manipal Institute of Technology, Majitar, Sikkim. Featuring a number of papers from the conference, it explores various aspects of communication, computation, cloud, and big data, including routing in cognitive radio wireless sensor networks, big data security issues, routing in ad hoc networks, routing protocol for Internet of things (IoT), and algorithm for imaging quality enhancement.

Ethno-ornithology is the study of the relationship between people and birds. This book makes an in-depth study of ethno-ornithological traditions of the Lepchas—an aboriginal group of people of North-East India. Bringing to light the Lepcha bird nomenclature, it describes in detail the place of birds in Lepcha myths of origins and their importance in the day-to-day lives of the Lepcha people. Taking note of Lepcha views on the birds, it also presents behaviour of different birds as depicted in Lepcha folktales, songs and dances.

All machining process are dependent on a number of inherent process parameters. It is of the utmost importance to find suitable combinations to all the process parameters so that the desired output response is optimized. While doing so may be nearly impossible or too expensive by carrying out experiments at all possible combinations, it may be done quickly and efficiently by using computational intelligence techniques. Due to the versatile nature of computational intelligence techniques, they can be used at different phases of the machining process design and optimization process. While powerful machine-learning methods like gene expression programming (GEP), artificial neural network

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(ANN), support vector regression (SVM), and more can be used at an early phase of the design and optimization process to act as predictive models for the actual experiments, other metaheuristics-based methods like cuckoo search, ant colony optimization, particle swarm optimization, and others can be used to optimize these predictive models to find the optimal process parameter combination. These machining and optimization processes are the future of manufacturing. Data-Driven Optimization of Manufacturing Processes contains the latest research on the application of state-of-the-art computational intelligence techniques from both predictive modeling and optimization viewpoint in both soft computing approaches and machining processes. The chapters provide solutions applicable to machining or manufacturing process problems and for optimizing the problems involved in other areas of mechanical, civil, and electrical engineering, making it a valuable reference tool. This book is addressed to engineers, scientists, practitioners, stakeholders, researchers, academicians, and students interested in the potential of recently developed powerful computational intelligence techniques towards improving the performance of machining processes.

The book titled Advanced Computational and Communication Paradigms: Proceedings of International Conference on ICACCP 2017, Volume 1 presents refereed high-quality papers of the First International Conference on Advanced Computational and Communication Paradigms (ICACCP 2017) organized by the Department of Computer Science and Engineering, Sikkim Manipal Institute of Technology, held from 8– 10 September 2017. ICACCP 2017 covers an advanced computational paradigms and communications technique which provides failsafe and robust solutions to the emerging problems faced by mankind. Technologists, scientists, industry professionals and research scholars from

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regional, national and international levels are invited to present their original unpublished work in this conference.

There were about 550 technical paper submitted. Finally after peer review, 142 high-quality papers have been accepted and registered for oral presentation which held across 09 general sessions and 05 special sessions along with 04 keynote address and 06 invited talks. This volume comprises 65 accepted papers of ICACCP 2017.

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