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Architectural Wireless Networks Solutions and Security Issues Springer Nature This book presents architectural solutions of wireless network and its variations. It basically deals with modeling, analysis, design and enhancement of different architectural parts of wireless network. The main aim of this book is to enhance the applications of wireless network by reducing and controlling its architectural issues. The book discusses efficiency and robustness of wireless network as a platform for communication and data transmission and also discusses some challenges and security issues such as limited hardware resources, unreliable communication, dynamic topology of some wireless networks, vulnerability and unsecure environment. This book is edited for users, academicians and researchers of wireless network. Broadly, topics include modeling of security enhancements, optimization model for network lifetime, modeling of aggregation systems and analyzing of troubleshooting techniques. **Adsorption and Aggregation of Surfactants in Solution** CRC Press Offering the latest research and developments in the understanding of surfactant behavior in solutions, this reference investigates the role and dynamics of surfactants and their solution properties in the formulation of paints, printing inks, paper coatings, pharmaceuticals, personal care products, cosmetics, liquid detergents, and lubricants. Exploring the science behind techniques from oil recovery to drug delivery, the book covers surfactant stabilized particles; solid particles at liquid interfaces; nanocapsules; aggregation behavior of surfactants; micellar catalysis; vesicles and liposomes; the clouding phenomena; viscoelasticity of micellar solutions; and more. **Energy Conservation Solutions for Fog-Edge Computing Paradigms** Springer Nature This book focuses on energy efficiency concerns in fog-edge computing and the requirements related to Industry 4.0 and next-generation networks like 5G and 6G. This book guides the research community about practical approaches, methodological, and moral questions in any nations' journey to conserve energy in fog-edge computing environments. It discusses a detailed approach required to conserve energy and comparative case studies with respect to various performance evaluation metrics, such as energy conservation, resource allocation strategies, task allocation strategies, VM migration, and load-sharing strategies with state-of-the-art approaches, with fog and edge networks. **COVID-19: Diagnosis and Management-Part II** Bentham Science Publishers The coronavirus disease 2019 (COVID-19) outbreak has spread throughout the globe and much time has passed since it was declared as a pandemic by the World Health Organization (WHO). COVID-19: Diagnosis and Management provides clinicians and scholars all the information on this disease in 2 volumes. Readers will find a concise and visual reference for this viral disease and will be equipped with the knowledge to assess and manage Sar-Cov-2 infection cases in clinical settings. This book is divided into two parts (I and II). Part I provides comprehensive information about 1) History of Coronaviruses, 2) Epidemiology of COVID-19, 3) Clinical presentation of this viral disease and 4) COVID-19 diagnosis. Part II covers broader topics about this communicable disease including 1) the prevention and treatment methodology, 2) mortality and long-term complications, 3) COVID-19 vaccines and future perspectives. Key Features: Covers all the aspects of COVID-19 making this a perfect textbook for virology and medical students. Chapter wise description and segregation of topics from pathophysiology to diagnosis and management of COVID-19. Six chapters in the first part which focus on clinical basics of COVID-19. Six chapters in the second part which cover broader topics for practical infection control. Multiple tables and figures which summarize and highlight important points. Presents a summary of the current standards for the evaluation and diagnosis of COVID-19. Features a detailed list of references, abbreviations, and symbols. This book is an essential textbook reference for medical students, scientists (virologists, pulmonologists) and public health officials who are required to understand COVID-19 diagnosis and management as part of their clinical training or professional work. **Surfactants in Solution Volume 6** Springer Science & Business Media This and its companion Volumes 4 and 5 document the proceedings of the 5th International Symposium on Surfactants in Solution held in Bordeaux, France, July 9-13, 1984. This symposium was the continuation of the series of symposia initiated in 1976 in Albany, New York under the title "Micellization, Solubilization and Microemulsions". The next two symposia were labelled "Solution Chemistry of Surfactants" and "Solution Behavior of Surfactants: Theoretical and Applied Aspects" held in Knoxville, TN in 1978 and Potsdam, N. V. in 1980, respectively. In 1982 at the time of the 4th Symposium in this series, it became amply evident that there was a definite need to have more a generic title to describe these biennial events, and after much deliberation it was decided that an appropriate title would be "Surfactants in Solution" as both the aggregation and adsorption aspects of surfactants were addressed. So the 4th Symposium was held in 1982 in Lund, Sweden, under this new rubric, and it was decided to continue these symposia in the future under this appellation. Naturally, the Bordeaux Symposium was dubbed as the 5th International Symposium on Surfactants in Solution, and our logo became SIS which is very apropos and appealing. It was in Bordeaux that the decision was made to hold the 6th SIS Symposium in New Delhi and it is scheduled for August 18-22, 1986 in the capital of India. **Organic Thin-Film Transistor Applications Materials to Circuits** CRC Press Text provides information about advanced OTFT (Organic thin film transistor) structures, their modeling and extraction of performance parameters, materials of individual layers, their molecular structures, basics of pi-conjugated semiconducting materials and their properties, OTFT charge transport phenomena and fabrication techniques. It includes applications of OTFTs such as single and dual gate OTFT based inverter circuits along with bootstrap techniques, SRAM cell designs based on different material and circuit configurations, light emitting diodes (LEDs). Besides this, application of dual gate OTFT in the logic gate, shift register, Flip-Flop, counter circuits will be included as well. **Energy Conservation for IoT Devices Concepts, Paradigms and Solutions** Springer This book addresses the Internet of Things (IoT), an essential topic in the technology industry, policy, and engineering circles, and one that has become headline news in both the specialty press and the popular media. The book focuses on energy efficiency concerns in IoT and the requirements related to Industry 4.0. It is the first-ever "how-to" guide on frequently overlooked practical, methodological, and moral questions in any nations' journey to reducing energy consumption in IoT devices. The book discusses several examples of energy-efficient IoT, ranging from simple devices like indoor temperature sensors, to more complex sensors (e.g. electrical power measuring devices), actuators (e.g. HVAC room controllers, motors) and devices (e.g. industrial circuit-breakers, PLC for home, building or industrial automation). It provides a detailed approach to conserving energy in IoT devices, and comparative case studies on performance evaluation metrics, state-of-the-art approaches, and IoT legislation. **Emerging Mobile and Web 2.0 Technologies for Connected E-Government** IGI Global E-Government describes the utilization of technologies to improve the lives of citizens and business organizations while facilitating the operation of the government. With the rise of new technologies, governments need to consider implementing Web 2.0 and mobile technologies as a way to offer relevant e-services to citizens so that they may fully participate in governmental affairs. Emerging Mobile and Web 2.0 Technologies for Connected E-Government highlights the latest technologies and how they can be implemented by the government and effectively used by citizens. This book aims to be an inclusive reference source for researchers, practitioners, students, and managers interested in the application of recent technological innovations to develop a more effective e-government system. **Self-Ignorance Is Your Problem. Self-Awareness Is Your Solution. Success Is Your Birthright! Life Is Yours and You Are the Pilot of It, Do Something about It.** Notion Press You have something great within you if you are passionate about realizing your inner uniqueness. If you think you deserve to live a life of love, peace, abundance, wealth and purpose, then this book is for you, to empower yourself knowledge and self belief. Self-Ignorance is your Problem. Self-Awareness is Your Solution will help you to discover your inner voice, become limitless and elevated, reach you to your dreams and enliven them to be more become creative. You will become a powerful and better person, committed to your goals and that of the society. What this book will do for you: ? Identify your goals and motivate you to achieve them in simple ways ? Boost your unshakable confidence and self image and improve your relationships, which will help you lead a better life. ? Choose the career that will make you happy for the rest of your life ?There are only a few books that can ?literally? move your life to ?the next level.? Luckily, this book is one of them. If you're looking to grow your success, happiness & prosperity, then do yourself a favour and read this book. Not only I am reading this book, but I am getting bulk copies so I can have my family members & clients read this book. WOW-it's AMAZING.? -Bishal Sarkar, World Authority on Practical Public Speaking and Author of I Love Public Speaking **Wake-up Call in the Wee Hours** Sterling Publishers Pvt. Ltd **Intelligent Marketing Employing New-Age Technologies** SAGE Publishing India Do you have specific tactics to survive this era of digital transformation? How can a firm extract powerful insights from responding to and implementing new-age technologies? Some companies adapt. Others miss the boat. Knowledge of what technology to employ, how to employ it, when and why it should be employed is a must in this era. Intelligent Marketing emphasizes organizing resources, developing capabilities and designing strategies for deploying new-age technologies to ensure a healthy financial outcome for all the key stakeholders, and a better quality of life for the society and community. **Functional Fillers and Nanoscale Minerals New Markets/new Horizons** SME Mineral additives are widespread in industrial manufacturing processes. So-called mineral fillers are used to extend raw materials and cut costs. Recently minerals and associated inorganics have frequently been used for their functionality and other mineral-specific qualities. The emergence of nanoscale minerals parallels the global pursuit of nanotechnology. The use of these minerals plays an important role in low-cost, high-performance application of nanotechnology. This 21-chapter compilation is for mineral suppliers, industrial users of mineral fillers, and those concerned with new trends in mineral processing and nanotechnology. Contributions by leading international researchers highlight the emerging markets and applications of functional fillers and nanoscale minerals. **THEETAS 2022 Proceedings of The International Conference on Emerging Trends in Artificial Intelligence and Smart Systems, THEETAS 2022, 16-17 April 2022, Jabalpur, India** European Alliance for Innovation The International Conference on Emerging Trends in Artificial Intelligence and Smart Systems (Theetas-2022) has organized by The Computer Society of India, Jabalpur Chapter and Department of Computer Science, AKS University, Satna. Artificial Intelligence has created a revolution in every aspect of human life. Techniques like machine learning, deep learning, natural language processing, robotics are applied in various domains to ease the human life. Recent years have witnessed tremendous growth of Artificial Intelligence techniques & its revolutionary applications in the emerging smart city and various automation applications. THEETAS-2022 will provide a global forum for sharing knowledge, research, and recent innovations in the field of Artificial Intelligence, Smart Systems, Machine Learning, Big Data, etc. This Conference will focus on the quality work and key experts who provide an opportunity in bringing up innovative ideas. The conference theme is specific & concise in terms to the development in the field of Artificial Intelligence & Smart Systems. **Index Medicus Handbook of Microemulsion Science and Technology** CRC Press Demonstrating methods for overcoming stability issues in paints, wax dispersions, cosmetics, food products, and other industrial applications, this reference probes theoretical and practical issues surrounding microemulsion science and technology. Featuring the work of 51 international experts and containing almost 1000 instructive tables, equations, and illustrations, this book reviews the performance of, and prospects for, experimental methods such as X-ray diffraction, transmission electron microscopy (TEM), light scattering, small angle neutron scattering, viscosimetry, and nuclear magnetic resonance (NMR) to characterize various aspects of the dispersed phase of microemulsions. **Real Life Applications of Soft Computing** CRC Press Rapid advancements in the application of soft computing tools and techniques have proven valuable in the development of highly scalable systems and resulted in brilliant applications, including those in biometric identification, interactive voice response systems, and data mining. Although many resources on the subject adequately cover the theoretic concepts, few provide clear insight into practical application. Filling this need, Real Life Applications of Soft Computing explains such applications, including the underlying technology and its implementation. While these systems initially seem complex, the authors clearly demonstrate how they can be modeled, designed, and implemented. Written in a manner that makes it accessible to novices, the book begins by covering the theoretical foundations of soft computing. It supplies a concise explanation of various models, principles, algorithms, tools, and techniques, including artificial neural networks, fuzzy systems, evolutionary algorithms, and hybrid algorithms. Supplying in-depth exposure to real life systems, the text provides: Multi-dimensional coverage supported by references, figures, and tables Warnings about common pitfalls in the implementation process, as well as detailed examinations of possible solutions A timely account of developments in various areas of application Solved examples and exercises in each chapter Detailing a wide range of contemporary applications, the text includes coverage of those in biometric systems, including physiological and behavioral biometrics. It also examines applications in legal threat assessment, robotic path planning, and navigation control. The authors consider fusion methods in biometrics and bioinformatics and also provide effective disease identification techniques. Complete with algorithms for robotic path planning, the book addresses character recognition and presents the picture compression technique by using a customized hybrid algorithm. The authors conclude with a discussion of parallel architecture for artificial neural networks and supply guidelines for creating and implementing effective soft computing designs. **Ion Exchange and Solvent Extraction Volume 21, Supramolecular Aspects of Solvent Extraction** CRC Press Over the past several decades, the theme of supramolecular chemistry (SC) has permeated nearly all aspects of chemical endeavor. Not surprisingly, it has also pervaded the field of solvent extraction (SX), inspiring the framework for this volume of Ion Exchange and Solvent

Extraction. In addition, tools for studying aggregation have grown increasingly sophisticated, leading to a greater understanding of what we now recognize as SC phenomena in SX. Volume 21, *Supramolecular Aspects of Solvent Extraction* identifies how supramolecular behavior occurs and is studied in the context of SX and how SC is influencing the direction of SX. With contributions by internationally recognized specialists from different fields, this volume examines how principles of SC are being used in advancing the design of new highly selective SX systems and for understanding aggregation phenomena in SX systems. The book begins with a discussion of the nature and definition of SC and its general use in the design of novel SX reagents. Chapter 2 expands the subject of ion-pair recognition to introduce outer-sphere recognition of metal complexes. Chapter 3 reviews the literature on calixarenes as extraction reagents for metal ions. Chapter 4 extends the utility of this chemistry, describing the use of calixarenes for the extraction of biomolecules. Chapter 5 examines the liquid-liquid interface as an expression of supramolecular phenomena in SX, reviewing interfacial aggregation in model two-phase systems and metal extraction systems. The final chapter explores the problem of aggregation in SX, the historical attempts to understand it, and recent progress that has been made in addressing the issue. **Challenges and Opportunities of Circular Economy in Agri-Food Sector Rethinking Waste** Springer Nature Global population by 2050 is predicted to be over 9 billion and accordingly, the production systems will demolish about 140 billion tons per year of minerals, ores, fossil fuels and biomass, i.e., thrice of the current need, and the food production itself has to be doubled. Optimized resource usage, lifecycle management, and reduced carbon emission have become a priority for agri-food businesses today, and circular economy (CE) helps for a sustainable and flexible way to grow without exhausting primary materials, and it thinks beyond recycling and resource usage. The word CE best relates to the resource and efficiency management, 6Rs, closed-loop production systems, zero waste and lifecycle engineering, reduced overconsumption of resources and waste generation, enriched system redesign and business model innovation, thereby leading to sustainable development goals. In this light, the book calls for theoretical and empirically sound contributions that are focused on the different aspects of the circular economy, 6R's, sustainable production and consumption, closed-loop systems, etc. in the agri-food sector. **Immersed Boundary Method Development and Applications** Springer Nature This volume presents the emerging applications of immersed boundary (IB) methods in computational mechanics and complex CFD calculations. It discusses formulations of different IB implementations and also demonstrates applications of these methods in a wide range of problems. It will be of special value to researchers and engineers as well as graduate students working on immersed boundary methods, specifically on recent developments and applications. The book can also be used as a supplementary textbook in advanced courses in computational fluid dynamics. **Encyclopedia of Information Science and Technology** IGI Global Snippet "This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher. **Security in Computing and Communications 6th International Symposium, SSCC 2018, Bangalore, India, September 19-22, 2018, Revised Selected Papers** Springer This book constitutes the refereed proceedings of the 6th International Symposium on Security in Computing and Communications, SSCC 2018, held in Bangalore, India, in September 2018. The 34 revised full papers and 12 revised short papers presented were carefully reviewed and selected from 94 submissions. The papers cover wide research fields including cryptography, database and storage security, human and societal aspects of security and privacy. **Advances in Computing and Communications, Part IV First International Conference, ACC 2011, Kochi, India, July 22-24, 2011. Proceedings** Springer Science & Business Media This volume is the fourth part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 62 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are the papers of the Workshop on Cloud Computing: Architecture, Algorithms and Applications (CloudComp2011), of the Workshop on Multimedia Streaming (MultiStreams2011), and of the Workshop on Trust Management in P2P Systems (IWTMP2PS2011). **Handbook of Research on Civic Engagement and Social Change in Contemporary Society** IGI Global Outreach and engagement initiatives are crucial in promoting community development and social change. This can be achieved through a number of methods including public policy and urban development. The Handbook of Research on Civic Engagement and Social Change in Contemporary Society is a critical scholarly resource that examines the unexplored field of applying social change to civic engagement in an effort to enlarge public welfare activities. Featuring coverage on a broad range of topics, such as civic education, sustainable development, and child labor, this publication is geared towards academicians, researchers, and students seeking current research on civic engagement and public welfare. **Information Technology and Mobile Communication International Conference, AIM 2011, Nagpur, Maharashtra, India, April 21-22, 2011, Proceedings** Springer Science & Business Media This book constitutes the refereed proceedings of the International Conference on Advances in Information Technology and Mobile Communication, AIM 2011, held at Nagpur, India, in April 2011. The 31 revised full papers presented together with 27 short papers and 34 poster papers were carefully reviewed and selected from 313 submissions. The papers cover all current issues in theory, practices, and applications of Information Technology, Computer and Mobile Communication Technology and related topics. **Fog Data Analytics for IoT Applications Next Generation Process Model with State of the Art Technologies** Springer Nature This book discusses the unique nature and complexity of fog data analytics (FDA) and develops a comprehensive taxonomy abstracted into a process model. The exponential increase in sensors and smart gadgets (collectively referred as smart devices or Internet of things (IoT) devices) has generated significant amount of heterogeneous and multimodal data, known as big data. To deal with this big data, we require efficient and effective solutions, such as data mining, data analytics and reduction to be deployed at the edge of fog devices on a cloud. Current research and development efforts generally focus on big data analytics and overlook the difficulty of facilitating fog data analytics (FDA). This book presents a model that addresses various research challenges, such as accessibility, scalability, fog nodes communication, nodal collaboration, heterogeneity, reliability, and quality of service (QoS) requirements, and includes case studies demonstrating its implementation. Focusing on FDA in IoT and requirements related to Industry 4.0, it also covers all aspects required to manage the complexity of FDA for IoT applications and also develops a comprehensive taxonomy. **Dataquest DQ. ISC Mathematics book 1 for Class- 11** S. Chand Publishing S Chand's ISC Mathematics is structured according to the latest syllabus as per the new CISCE (Council for the Indian School Certificate Examinations), New Delhi, for ISC students taking classes XI & XII examinations. **Big Data Processing Using Spark in Cloud** Springer The book describes the emergence of big data technologies and the role of Spark in the entire big data stack. It compares Spark and Hadoop and identifies the shortcomings of Hadoop that have been overcome by Spark. The book mainly focuses on the in-depth architecture of Spark and our understanding of Spark RDDs and how RDD complements big data's immutable nature, and solves it with lazy evaluation, cacheable and type inference. It also addresses advanced topics in Spark, starting with the basics of Scala and the core Spark framework, and exploring Spark data frames, machine learning using Mllib, graph analytics using Graph X and real-time processing with Apache Kafka, AWS Kinesis, and Azure Event Hub. It then goes on to investigate Spark using PySpark and R. Focusing on the current big data stack, the book examines the interaction with current big data tools, with Spark being the core processing layer for all types of data. The book is intended for data engineers and scientists working on massive datasets and big data technologies in the cloud. In addition to industry professionals, it is helpful for aspiring data processing professionals and students working in big data processing and cloud computing environments. **Introduction to Database Management System** Laxmi Publications **ASIA Major Banks, Financial, and Insurance Companies Directory** Business Information Agency **Emerging Trends in Data Driven Computing and Communications Proceedings of DDCIoT 2021** Springer Nature This book includes best selected, high-quality research papers presented at International Conference on Data Driven Computing and IoT (DDCIoT 2021) organized jointly by Geetanjali Institute of Technical Studies (GITS), Udaipur, and Rajasthan Technical University, Kota, India, during March 20-21, 2021. This book presents influential ideas and systems in the field of data driven computing, information technology, and intelligent systems. **The 5-Minute Clinical Consult 2020** Wolters kluwer india Pvt Ltd Over 250 diagnostic and treatment algorithms over 900 topics providing clinical guidance current evidence-based designations highlighted in each topic at-a-glance format with concise and bulleted text, ICD-10 codes, dsm-5 criteria quick information to help in diagnosis, treatment selection and medication dosing easy-to-use reference at point of care providing quick answer to a direct clinical question. **Smart Trends in Computing and Communications Proceedings of SmartCom 2022** Springer Nature This book gathers high-quality papers presented at the Sixth International Conference on Smart Trends in Computing and Communications (SmartCom 2022), organized by Global Knowledge Research Foundation (GR Foundation) in partnership with IFIP InterYIT during January 11-12, 2022. It covers the state of the art and emerging topics in information, computer communications, and effective strategies for their use in engineering and managerial applications. It also explores and discusses the latest technological advances in, and future directions for, information and knowledge computing and its applications. **Advanced Informatics for Computing Research 5th International Conference, ICAICR 2021, Gurugram, India, December 18-19, 2021, Revised Selected Papers** Springer Nature This volume constitutes selected and revised papers of the 5th International Conference on Advanced Informatics for Computing Research, ICAICR 2021, held in Gurugram, India, in December 2021. The 17 revised full papers and 6 short papers presented were carefully reviewed and selected from 306 submissions. The papers targeted state-of-the-art as well as emerging topics pertaining to advanced informatics for computing research and its implementation for engineering applications. **Citizen Empowerment through Digital Transformation in Government** CRC Press Technological innovations across the globe are bringing profound change to our society. Governments around the world are experiencing and embracing this technology-led shift. New platforms, emerging technologies, customizable products, and changing citizen demand and outlook towards government services are reshaping the whole journey. When it comes to the application of Information and Communication Technologies (ICT) in any sector, the Government of India has emerged as an early adopter of these technologies and has also focused on last-mile delivery of citizen-centric services. Citizen Empowerment through Digital Transformation in Government takes us through the four-decade long transformational journey of various key sectors in India where ICT has played a major role in reimagining government services to citizens across the country. It touches upon the emergence of the National Informatics Centre as a premier technology institution of the Government of India and its collaborative efforts with the Central, State Governments, as well as the District level administration, to deliver best-in-class solutions. Inspiring and informative, the book is filled with real-life transformation stories that have helped to lead the people and the Government of India to realize their vision of a digitally empowered nation. **Implementing Data Analytics and Architectures for Next Generation Wireless Communications** IGI Global Wireless communication is continuously evolving to improve and be a part of our daily communication. This leads to improved quality of services and applications supported by networking technologies. We are now able to use LTE, LTE-Advanced, and other emerging technologies due to the enormous efforts that are made to improve the quality of service in cellular networks. As the future of networking is uncertain, the use of deep learning and big data analytics is a point of focus as it can work in many capacities at a variety of levels for wireless communications. **Implementing Data Analytics and Architectures for Next Generation Wireless Communications** addresses the existing and emerging theoretical and practical challenges in the design, development, and implementation of big data algorithms, protocols, architectures, and applications for next generation wireless communications and their applications in smart cities. The chapters of this book bring together academics and industrial practitioners to exchange, discuss, and implement the latest innovations and applications of data analytics in advanced networks. Specific topics covered include key encryption techniques, smart home appliances, fog communication networks, and security in the internet of things. This book is valuable for technologists, data analysts, networking experts, practitioners, researchers, academicians, and students. **Network Security Technologies: Design and Applications** IGI Global Recent advances in technologies have created a need for solving security problems in a systematic way. With this in mind, network security technologies have been produced in order to ensure the security of software and communication functionalities at basic, enhanced, and architectural levels. **Network Security Technologies: Design and Applications** presents theoretical frameworks and the latest research findings in network security technologies while analyzing malicious threats which can compromise network integrity. This book is an essential tool for researchers and professionals interested in improving their understanding of the strategic role of trust at different levels of information and knowledge society. **Handbook of Microemulsion Science and Technology** CRC Press Demonstrating methods for overcoming stability issues in paints, wax dispersions, cosmetics, food products, and other industrial applications, this reference probes theoretical and practical issues surrounding microemulsion science and technology. Featuring the work of 51 international experts and containing almost 1000 instructive tables, equations, and illustrations, this book reviews the performance of, and prospects for, experimental methods such as X-ray diffraction, transmission electron microscopy (TEM), light scattering, small angle neutron scattering, viscosimetry, and nuclear magnetic resonance (NMR) to characterize various aspects of the dispersed phase of microemulsions. **Guide to Indian Periodical Literature Advances in Cybernetics, Cognition, and Machine Learning for Communication Technologies** Springer Nature This book highlights recent advances in Cybernetics, Machine Learning and Cognitive Science applied to Communications Engineering and Technologies, and presents high-quality research conducted by experts in this area. It provides a valuable reference guide for students, researchers and industry practitioners who want to keep abreast of the latest developments in this dynamic, exciting and interesting research field of communication engineering, driven by next-generation IT-enabled techniques. The book will also benefit practitioners whose work involves the development of communication systems using advanced cybernetics, data processing, swarm intelligence and cyber-physical systems; applied mathematicians; and developers of embedded and real-time systems. Moreover, it shares insights into applying concepts from Machine Learning, Cognitive Science, Cybernetics and other areas of artificial intelligence to wireless and mobile systems, control systems and biomedical engineering.