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***From the Introduction: Nanotechnology and its underpinning sciences are progressing with unprecedented rapidity. With technical advances in a variety of nanoscale fabrication and manipulation technologies, the whole topical area is maturing into a vibrant field that is generating new scientific research and a burgeoning range of commercial***

***applications, with an annual market already at the trillion dollar threshold. The means of fabricating and controlling matter on the nanoscale afford striking and unprecedented opportunities to exploit a variety of exotic phenomena such as quantum, nanophotonic and nanoelectromechanical effects. Moreover, researchers are elucidating new perspectives on the electronic and optical properties of matter because of the way that nanoscale materials bridge the disparate theories describing molecules and bulk matter. Surface phenomena also gain a greatly increased significance; even the well-known link between chemical reactivity and surface-to-volume ratio becomes a major determinant of physical properties, when it operates over nanoscale dimensions. Against this background, this comprehensive work is designed to address the need for a dynamic, authoritative and readily accessible source of information, capturing the full breadth of the subject. Its six volumes, covering a broad spectrum of disciplines including material sciences, chemistry, physics and life sciences, have been written and edited by an outstanding team of international experts. Addressing an extensive, cross-disciplinary audience, each chapter aims to cover key developments in a scholarly, readable and critical style, providing an indispensable first point of entry to the literature for scientists and technologists from interdisciplinary fields. The work focuses on the major classes of nanomaterials in terms of their synthesis, structure and applications, reviewing nanomaterials and their respective***

***technologies in well-structured and comprehensive articles with extensive cross-references. It has been a constant surprise and delight to have found, amongst the rapidly escalating number who work in nanoscience and technology, so many highly esteemed authors willing to contribute. Sharing our anticipation of a major addition to the literature, they have also captured the excitement of the field itself in each carefully crafted chapter. Along with our painstaking and meticulous volume editors, full credit for the success of this enterprise must go to these individuals, together with our thanks for (largely) adhering to the given deadlines. Lastly, we record our sincere thanks and appreciation for the skills and professionalism of the numerous Elsevier staff who have been involved in this project, notably Fiona Geraghty, Megan Palmer and Greg Harris, and especially Donna De Weerd-Wilson who has steered it through from its inception. We have greatly enjoyed working with them all, as we have with each other. As information resource management becomes increasingly dependent on emerging technologies to combat its challenges and decipher its effective strategies, the demand builds for a critical mass of research in this area. Innovative Technologies for Information Resource Management brings together compelling content related to the continually emerging technologies in areas of information systems such as Web services, electronic commerce, distance learning, healthcare, business process management, and software development. Focusing on the implications***

***innovative technologies have on the managerial and organizational aspects of information resource management, this book provides academicians and practitioners with a requisite and enlightening reference source. Leadership is vital to creativity and successful innovation in groups and organizations; leadership is however seldom studied in the academic literature as a creativity driver. One reason for the lack of attention paid to leadership's effect on creativity may be the common belief that creativity cannot and should not be managed. Creative individuals and groups are regarded as, and indeed often are, autonomous and self-driving. From this belief the erroneous conclusion is drawn that there is no need for leadership in creative environments and situations. The better conclusion, proposed by this book, is that leadership not only stimulates creativity, but that such a leadership in the science, technology, and innovation fields should specifically possess at least two features: a) expertise in the field(s), and b) an ability to create, support, and encourage individuals, groups, and creative knowledge environments. A number of specialist authors in this volume offer original theoretical, empirical, and applied chapters that elucidate how to better organize and lead creative efforts in science, technology, and innovation. A number of important research questions are raised and answered, including: What kinds of leaderships are needed at different levels of S&T organizations for a creative output? What social and cognitive abilities and skills are needed for leadership in***

***creative environments? How does leadership vary with different phases of the creative process? This book offers concrete analysis of how leaders and managers can facilitate, promote, and organize for creative performance in science, technology, and in innovating organizations, making it required reading for academic and industrial research leaders, scientists, and engineers. Climate change is a major challenge facing the modern world. The chemistry of air and its influence on the climate system forms the main focus of this monograph. The book presents a problem-based approach to presenting global atmospheric processes, evaluating the effects of changing air composition as well as possibilities for interference within these processes and indicates ways for solving the problem of climate change through chemistry. The new edition includes innovations and latest research results. Seven 1.6% molar aqueous solutions, orthophosphoric acid (OPA), phosphorus acid, phosphonic acid, methylphosphonic acid, dimethyl methylphosphonate (DMMP), sodium chloride (NaCl) and sodium phosphate were investigated experimentally. Extinction and radical level calculations were also performed with two phosphorus mechanisms and one NaCl mechanism with a simplified treatment of particle to gas vaporization. All mechanisms substantially underpredict the effectiveness of the phosphorus-containing compounds or NaCl. Research on the international transfer of technology in economics and management literature has primarily focused***



***on the role of countries and that of companies, in particular multinational enterprises (MNEs). Similarly, economic and business historians have tended to view international technology transfer as a way for economically 'backward' countries to acquire new technologies in order to catch up with more developed economies. This volume provides a more in-depth understanding of how the international transfer of technologies is organized and, in particular, challenges the core-periphery model that is still dominant in the extant literature. By looking beyond national systems of innovation, and statistics on foreign trade, patent registration and foreign direct investment, the book sheds more light on the variety of actors involved in the transfer process (including engineers, entrepreneurs, governments, public bodies, firms, etc.) and on how they make use of a broad set of national and international institutions facilitating technology transfer. Put differently, the volume offers a better understanding of the complexity of global technology flows by examining the role and actions of the different actors involved. By bringing together a number of original case studies covering many different countries over the period from the late 19th to the 21st century, the book demonstrates how technology is being transferred through complex processes, involving a variety of actors from several countries using the national and international institutional frameworks. This book offers you a brief, but very involved look into the operations in the drilling of an oil & gas wells that***

***will help you to be prepared for job interview at oil & gas companies. From start to finish, you'll see a general prognosis of the drilling process. If you are new to the oil & gas industry, you'll enjoy having a leg up with the knowledge of these processes. If you are a seasoned oil & gas person, you'll enjoy reading what you may or may not know in these pages. This course provides a non-technical overview of the phases, operations and terminology used on offshore drilling platforms. It is intended also for non-drilling personnel who work in the offshore drilling, exploration and production industry. This includes marine and logistics personnel, accounting, administrative and support staff, environmental professionals, etc. No prior experience or knowledge of drilling operations is required. This course will provide participants a better understanding of the issues faced in all aspects of drilling operations, with a particular focus on the unique aspects of offshore operations. The present work reflects a multi-disciplinary effort to address the topic of confined hydrosystems developed with a cross-fertilization panel of physics, chemists, biologists, soil and earth scientists. Confined hydrosystems include all situations in natural settings wherein the extent of the liquid phase is limited so that the solid-liquid and/or liquid-air interfaces may be critical to the properties of the whole system. Primarily, this so-called "residual" solution is occluded in pores/channels in such a way that decreases its tendency to evaporation, and makes it long-lasting in arid (Earth deserts) and***

**hyper-arid (Mars soils) areas. The associated physics is available from domains like capillarity, adsorption and wetting, and surface forces. However, many processes are still to understand due to the close relationship between local structure and matter properties, the subtle interplay between the host and the guest, the complex intermingling among static reactivity and migration pathway. Expert contributors from Israel, Russia, Europe and US discuss the behaviour of water and aqueous solutes at different scale, from the nanometric range of carbon nanotubes and nanofluidics to the regional scale of aquifers reactive flow in sedimentary basins. This scientific scope allowed the group of participants with very different background to tackle the confinement topic at different scales. The book is organized according to four sections that include: i) flow, from nano- to mega-scale; ii) ions, hydration and transport; iii) in-pores/channels cavitation; iv) crystallization under confinement. Most of contributions relates to experimental works at different resolution, interpreted through classic thermodynamics and intermolecular forces. Simulation techniques are used to explore the atomic scale of interfaces and the migration in the thinnest angstrom-wide channels. Trends in Oil and Gas Corrosion Research and Technologies: Production and Transmission delivers the most up-to-date and highly multidisciplinary reference available to identify emerging developments, fundamental mechanisms and the technologies**

***necessary in one unified source. Starting with a brief explanation on corrosion management that also addresses today's most challenging issues for oil and gas production and transmission operations, the book dives into the latest advances in microbiology-influenced corrosion and other corrosion threats, such as stress corrosion cracking and hydrogen damage just to name a few. In addition, it covers testing and monitoring techniques, such as molecular microbiology and online monitoring for surface and subsurface facilities, mitigation tools, including coatings, nano-packaged biocides, modeling and prediction, cathodic protection and new steels and non-metallics. Rounding out with an extensive glossary and list of abbreviations, the book equips upstream and midstream corrosion professionals in the oil and gas industry with the most advanced collection of topics and solutions to responsibly help solve today's oil and gas corrosion challenges. Covers the latest in corrosion mitigation techniques, such as corrosion inhibitors, biocides, non-metallics, coatings, and modeling and prediction Solves knowledge gaps with the most current technology and discoveries on specific corrosion mechanisms, highlighting where future research and industry efforts should be concentrated Achieves practical and balanced understanding with a full spectrum of subjects presented from multiple academic and world-renowned contributors in the industry The Fourth Industrial Revolution has disrupted businesses worldwide through the introduction of***

***highly automated processes. This disruption has affected the way in which companies conduct business, impacting everything from managerial styles to resource allocations to necessary new skillsets. As the business world continues to change and evolve, it is imperative that business education strategies are continuously revised and updated in order to adequately prepare students who will be entering the workforce as future entrepreneurs, executives, and marketers, among other careers. The Research Anthology on Business and Technical Education in the Information Era is a vital reference source that examines the latest scholarly material on pedagogical approaches in finance, management, marketing, international business, and other fields. It also explores the implementation of curriculum development and instructional design strategies for technical education. Highlighting a range of topics such as business process management, skill development, and educational models, this multi-volume book is ideally designed for business managers, business and technical educators, entrepreneurs, academicians, upper-level students, and researchers. This book discusses how to reduce the impact of dust and heat on photovoltaic systems. It presents the problems caused by both dust accumulation and heat on PV systems, as well as the solutions, in a collected piece of literature. The Effects of Dust and Heat on Photovoltaic Modules: Impacts and Solutions begins by discussing the properties of dust accumulation on PV modules. It then presents several solutions to this, such as***

***hydrophobic coatings and surface texturing. The second half of the book is used to discuss the effects of heat on silicon PV modules, as well as various cooling approaches. These include water cooling and carbon-based materials. Due to the prevalence of PV systems in renewable energy, this book will be of interest to numerous students, researchers and practitioners. The 7th volume of national studies on the economic contribution of the copyright based industries offers economic analysis on the size of the copyright industries in Jordan, Lithuania, Malawi, Tanzania and Trinidad and Tobago. The publication reviews the contribution of economic activities based on copyright and related rights to the creation of national value added, employment and trade in selected countries and broadens the scope of WIPO-led research on the economic aspects of copyright. Globalization is leading the industry worldwide especially the new technology sector. The main aim of the book is to enhance the reader's knowledge - especially from a multidisciplinary perspective rather than from an individual functional perspective -the role of the globalization in the evolving world of the new technologies. This book will overview the process of globalization from a number of perspectives, including historical, geographical and social viewpoints while focusing on the new technologic products and services. Globalization and its effects on the innovative technology sector are best examined in terms of the social ramifications, and especially the geographical and political and economic (or political economy)***

**contexts, at and between different levels, including the local, the regional and the global. "This book highlights innovative research, theoretical frameworks, and perspectives that are currently being used to guide the practice of leveraging diversity in multiple organizational settings"--Provided by publisher. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 100 questions and answers for job interview and as a BONUS 230 links to video movies. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. Over one hundred presentations from the 36th annual Charleston Library Conference (held November 1-5, 2016) are included in this annual proceedings volume. Major themes of the meeting included data visualization, streaming video, analysis and assessment, demand-driven acquisition, and open access publishing. While the Charleston meeting remains a core one for acquisitions librarians in dialog with publishers and vendors, the breadth of coverage of this volume reflects the fact that this conference is now one of**

***the major venues for leaders in the publishing and library communities to shape strategy and prepare for the future. Almost 2,000 delegates attended the 2016 meeting, ranging from the staff of small public library systems to the CEOs of major corporations. This fully indexed, copyedited volume provides a rich source for the latest evidence-based research and lessons from practice in a range of information science fields. Contributors comprise leaders in the library, publishing, and vendor communities. The sudden outbreak of the COVID-19 pandemic has curbed human lifestyle by imposing restrictions on regular daily movements that had been taken for granted. Due to the pandemic, the welfare segment has received more attention, and every possible effort is being made to prioritize the services at the top. This can be made possible while using the latest tools, technologies, and resources that impact the human culture and welfare of well-being. Novel methods and devices that make the welfare services more efficient, adaptive, transparent, and cost-effective need to be explored. The Handbook of Research on Lifestyle Sustainability and Management Solutions Using AI, Big Data Analytics, and Visualization offers extensive research on lifestyle management and services that contribute towards indication, detection, conduction, protection, and technological enhancement including machine learning, deep learning, artificial intelligence, big data analytics, and visualization. It also provides mechanisms that can improve lifestyle monitoring and help in increasing the immunity of***



***the human body. Covering topics such as big data, robot therapy, and wearable technology, it is ideal for students, researchers, technologists, IT specialists, computer engineers, systems engineers, data scientists, doctors, hospital administrators, engineers, academicians, and technology providers. "This book is the best source for the most current, relevant, cutting edge research in the field of industrial informatics focusing on different methodologies of information technologies to enhance industrial fabrication, intelligence, and manufacturing processes"--Provided by publisher. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 100 questions and answers for job interview and as a BONUS web addresses to 230 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to***

***the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 218 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. Following the collection of a sample, every analytical chemist will agree that its subsequent preservation and processing are of paramount importance. The availability of high performance analytical instrumentation has not diminished this need for careful selection of appropriate pretreatment methodologies, intelligently designed to synergistically elicit optimum function from these powerful measurement tools. Sample Preparation for Trace Element Analysis is a modern, comprehensive treatise, providing an account of the state-of-the art on the subject matter. The book has been conceived and designed to satisfy the varied needs of the practicing analytical chemist. It is a multi-author work, reflecting the diverse expertise arising from its highly qualified contributors. The first five chapters deal with general issues related to the determination of trace metals in varied matrices, such as sampling, contamination control,***

***reference materials, calibration and detection techniques. The second part of the book deals with extraction and sampling technologies (totaling 15 chapters), providing theoretical and practical hints for the users on how to perform specific extractions. Subsequent chapters overview seven major representative matrices and the sample preparation involved in their characterization. This portion of the book is heavily based on the preceding chapters dealing with extraction technologies. The last ten chapters are dedicated to sample preparation for trace element speciation. - First title to provide comprehensive sample preparation information, dealing specifically with the analysis of samples for trace elements. - The 39 chapters are authored by international leaders of their fields. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 218 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry.***

***The #1 guide to aerosol science and technology -now better than ever Since 1982, Aerosol Technology has been the text of choice among students and professionals who need to acquire a thorough working knowledge of modern aerosol theory and applications. Now revised to reflect the considerable advances that have been made over the past seventeen years across a broad spectrum of aerosol-related application areas - from occupational hygiene and biomedical technology to microelectronics and pollution control -this new edition includes: \* A chapter on bioaerosols \* New sections on resuspension, transport losses, respiratory deposition models, and fractal characterization of particles \* Expanded coverage of atmospheric aerosols, including background aerosols and urban aerosols \* A section on the impact of aerosols on global warming and ozone depletion. Aerosol Technology, Second Edition also features dozens of new, fully worked examples drawn from a wide range of industrial and research settings, plus new chapter-end practice problems to help readers master the material quickly.***

***Information and Communication Technologies, Society and Human Beings: Theory and Framework addresses the extensive area of effects of ICT on human beings and the interaction between ICT, individuals, organizations, and society. This premier reference source features contributions from over 45 distinguished researchers from around the world, each presenting high quality research on Social Informatics, Human Computer Interaction,***

***Organizational Behavior, and Macro-ergonomics. This unique publication is perfect for students, teachers, researchers, engineers, practitioners, managers, policy-makers, and media alike. This book presents the current state of the nursing science in topics relevant to the care of pediatric oncology patients and their families across the treatment trajectory and is framed within a precision health framework. The spectrum of topics covered is wide, including, for example, symptom management, self-care management, exercise and physical activity, family-centered care, palliative care, the role of the nurse in treatment decision making, patient and nurse resiliency, survivorship, and genetic counseling. Throughout, there is a focus on the implications of research for nursing practice, highlighting which elements of the available evidence are ready for translation into practice and which are not. In addition, careful attention is paid to the role that nursing can play in further advancing science through clinical research. The authors are leading experts from across the globe. The book will be of special interest for pediatric oncology nurses, including direct care nurses, research nurses, and nursing leaders, and will also be a stimulating source for researchers and non-oncology nurses. "This book provides a discussion of the managerial aspects, solutions and case studies related to e-business, disseminating current achievements and practical solutions and applications"--Provided by publisher. The job interview is probably the most important step you***

***will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 150 questions and answers for job interview and as a BONUS web addresses to 220 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. The #1 guide to aerosol science and technology -now better than ever Since 1982, Aerosol Technology has been the text of choice among students and professionals who need to acquire a thorough working knowledge of modern aerosol theory and applications. Now revised to reflect the considerable advances that have been made over the past seventeen years across a broad spectrum of aerosol-related application areas - from occupational hygiene and biomedical technology to microelectronics and pollution control -this new edition includes: \* A chapter on bioaerosols \* New sections on resuspension, transport losses, respiratory deposition models, and fractal characterization of particles \* Expanded coverage of atmospheric aerosols, including background aerosols and urban aerosols \* A section on the***

***impact of aerosols on global warming and ozone depletion. Aerosol Technology, Second Edition also features dozens of new, fully worked examples drawn from a wide range of industrial and research settings, plus new chapter-end practice problems to help readers master the material quickly. Aerosols influence many areas of our daily life. They are at the core of environmental problems such as global warming, photochemical smog and poor air quality. They can also have diverse effects on human health, where exposure occurs in both outdoor and indoor environments. However, aerosols can have beneficial effects too; the delivery of drugs to the lungs, the delivery of fuels for combustion and the production of nanomaterials all rely on aerosols. Advances in particle measurement technologies have made it possible to take advantage of rapid changes in both particle size and concentration. Likewise, aerosols can now be produced in a controlled fashion. Reviewing many technological applications together with the current scientific status of aerosol modelling and measurements, this book includes:***

- Satellite aerosol remote sensing***
- The effects of aerosols on climate change***
- Air pollution and health***
- Pharmaceutical aerosols and pulmonary drug delivery***
- Bioaerosols and hospital infections***
- Particle emissions from vehicles***
- The safety of emerging nanomaterials***
- Radioactive aerosols: tracers of atmospheric processes***

***With the importance of this topic brought to the public's attention after the eruption of the Icelandic volcano Eyjafjallajökull, this book provides a timely, concise***

***and accessible overview of the many facets of aerosol science. This book contains the papers presented at the international research symposium "Solid Modeling by Computers: From Theory to Applications," held at the General Motors Research Laboratories on September 25-27, 1983. This was the 28th symposium in a series which the Research Laboratories began sponsoring in 1957. Each symposium has focused on a topic that is both under active study at the Research Laboratories and is also of interest to the larger technical community. Solid modeling is still a very young research area, young even when compared with other computer-related research fields. Ten years ago, few people recognized the importance of being able to create complete and unambiguous computer models of mechanical parts. Today there is wide recognition that computer representations of solids are a prerequisite for the automation of many engineering analyses and manufacturing applications. In September 1983, the time was ripe for a symposium on this subject. Research had already demonstrated the efficacy of solid modeling as a tool in computer automated design and manufacturing, and there were significant results which could be presented at the symposium. Yet the field was still young enough that we could bring together theorists in solid modeling and practitioners applying solid modeling to other research areas in a group small enough to allow a stimulating exchange of ideas. "This book examines current research in support of knowledge management by***



***focusing on how knowledge resources can be used to create and sustain competitive advantages, combining imitation and innovation theories" --Provided by publisher. An encyclopedic how-to guide for the universal early childhood program problems. Practical Solutions to Practically Every Problem attempts to provide solutions to every possible problem faced by early childhood teachers—before teachers encounter them. This classic resource has been updated to focus on current issues faced by educators, including teaching twenty-first century life skills, technology, and cultural responsiveness. This easy-to-use guide gives you quick practical help, now! Educators will save time and energy with over eight hundred solutions to two hundred problems, including: Daily dilemmas and classroom issues Partnering with families to raise happy children Dealing with problematic behaviors from co-workers Learning to take care of yourself to prevent burn-out Steffen Saifer, EdD, a former early childhood teacher and Head Start director and trainer, is currently an international consultant and writer based in Spain. He has worked on projects for the Open Society Foundation, The World Bank, and UNICEF, in many countries including Bangladesh, Russia, and Zimbabwe. Dr. Saifer works with programs on culturally responsive curriculum development and implementation and with universities to develop graduate programs for ECD teachers, administrators, and leaders. When in the United States, Saifer resides in Portland, Oregon An***

***authorized military account of the Civil War combines the expertise of preeminent historians with images and maps from West Point archives to explain the tactics, decisions, and consequences of the military campaigns. "Volume 1 of this outstanding resource concentrates on safety and environmental concerns in the manufacture and use of resins, and thoroughly discusses theories of degradation, plasticization, solvation, and stabilization. " This book contains over 400 offered papers which were presented at the 63rd International Congress of Meat Science and Technology, held in Cork, Ireland, from 13-18 August, 2017. Under the theme of nurturing locally, growing globally, areas covered in the congress included meat sustainability and the role of the of meat science in a challenging global environment, genetics and genomics, the science of meat quality, technological demands in meat processing from an Asian perspective, international best practice in animal welfare, scientific advances underpinning meat safety, emerging technologies in meat processing, meat science and impact, consumer aspects, meat biochemistry, advancements in meat packaging and the congress ended with a session on meat and health, with focus on sustaining healthy protein sources. This year also included a session dedicated to addressing specific hot topics of importance to the industry and meat scientists. These proceedings reflect the truly global nature of meat research and provide an insight into current research issues for the industry.***

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