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JEE Advanced 2018 Paper 1 & 2 Solved Papers (Free Sample) **JEE Advanced 16 Year-wise Solved Papers 1 & 2 (2006 - 2021) 3rd Edition** *Advanced Digital Optical Communications* **Biosensor Based Advanced Cancer Diagnostics** *Nursing Informatics for the Advanced Practice Nurse* **Austerity Handbook of Flexible and Stretchable Electronics** **Digital Da Vinci Balanced Trade An Introduction to Thermodynamic Cycle Simulations for Internal Combustion Engines** **Ships and Offshore Structures XIX What's Wrong with Rights?** *Textitura 48* **Advanced Nutrition and Dietetics in Nutrition Support** **Advances in Materials Technology for Fossil Power Plants** **Recycling of Polyethylene Terephthalate** **ECRM2013- Proceedings of the 12th European Conference on Research Methods** *5G Mobile Communications* **Proceedings of the International Conference on Soft Computing Systems Paper-based Diagnostics** **Digital Afterlife** **Fiscal Challenges of Population Aging in Brazil** **Microwave Materials and Applications, 2 Volume Set** *Capitalising Economic Power in the US Workers and the Global Informal Economy* **The Oxford Handbook of Comparative Regionalism** *Studies on China's Special Economic Zones* **2 Delivering Value with BIM Behaviour of Steel Structures in Seismic Areas** **Fundamentals of Public Safety Networks and Critical Communications Systems** *Fiscal Monitor, April 2017* *Eco-Architecture V* **Hamric & Hanson's Advanced Practice Nursing - E-Book** **Shifting Power in Asia-Pacific? Opportunistic Spectrum Sharing and White Space Access** **Neural circuits underlying emotion and motivation: Insights from optogenetics and pharmacogenetics** **2.5D Printing** **Low and Lower Fertility** **Software Engineering for Resilient Systems** *Analysis of renewable energy integration options in urban energy systems with centralized energy parks*

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Neural circuits underlying emotion and motivation: Insights from optogenetics and pharmacogenetics Oct 22 2019 Application of optogenetic and pharmacogenetic tools to study the neural circuits underlying emotional valence, feeding, arousal and motivated behaviors has provided crucial insights into brain function. Expression of light sensitive proteins into specific neurons and subsequent stimulation by light (optogenetics) to control neuronal activity or expression of designer receptors exclusively activated by designer drugs (DREADD) in specific neuronal populations with subsequent activation or suppression of neuronal activity by an otherwise inert ligand (pharmacogenetics) provides control over defined elements of neural circuits. These novel tools have provided a more in depth understanding into several questions about brain function. These include: • Regulation of sleep-wake transition by the interaction of hypocretin neurons of lateral hypothalamus and noradrenergic neurons of the locus coeruleus • Regulation of feeding by AGRP and POMC neurons in arcuate nucleus of the hypothalamus • Place preference and positive reinforcement by activation of DA neuron of VTA • Place aversion by activation of VTA GABA and lateral habenula neurons • Opposing influences on reinforcement by activation of D1 and D2 expressing medium spiny neurons of dorsal striatum and nucleus accumbens The list still grows... From cell type specific manipulations to signaling properties in the cell (Dietz et al 2012) with unprecedented temporal resolution, these tools revolutionize the exploration of pathways/connectivity. Recent years also witnessed the extension of applying these tools from studying emotional valence and motivated behavior to reactivation of memory. c-fos based genetic approaches allowed us to integrate light sensitive opsins or DREADD receptor into specific neurons that are activated by certain learning events (for example fear) (Garner et al 2012; Liu et al 2012). In this Research Topic, we welcome researchers to contribute original research articles, review articles, methods and commentary on topics utilizing optogenetic and pharmacogenetic tools to study the neural circuits underlying emotional valence, motivation, reinforcement and memory. We believe the Research Topic will shine light on various questions we have about brain function by using novel optogenetic and pharmacogenetic tools and will hopefully inspire ongoing research to overcome the hurdles of using these tools to advance clinical applications.

Proceedings of the International Conference on Soft Computing Systems Apr 08 2021 The book is a collection of high-quality peer-reviewed research papers presented in International Conference on Soft Computing Systems (ICSCS 2015) held at Noorul Islam Centre for Higher Education, Chennai, India. These research papers provide the latest developments in the emerging areas of Soft Computing in Engineering and Technology. The book is organized in two volumes and discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies.

(Free Sample) **JEE Advanced 16 Year-wise Solved Papers 1 & 2 (2006 - 2021) 3rd Edition** Sep 25 2022 **JEE Advanced 16 Year-wise Solved Papers 1 & 2 (2021 - 2006)** is the Most Important Resource for success in JEE Advanced. The book consists of the detailed solutions of the past 16 year papers of JEE Advanced - IIT-JEE (2006 to 2012) and JEE Advanced (2013 - 2021) Papers 1 & 2 to ANALYSE (the pattern, level of questions etc.) the exam; The book also provides the Trend Analysis of last 9 years in all the 3 subjects.

Behaviour of Steel Structures in Seismic Areas May 29 2020 9th STESSA 2018 Selected, peer reviewed papers from the 9th International Conference on the Behaviour of Steel Structures in Seismic Areas (STESSA 2018), February 14-17, 2018, Christchurch, New Zealand

Fiscal Monitor, April 2017 Mar 27 2020 This publication is a survey by the IMF staff, published twice a year, in the spring and fall, as part of the IMF's World Economic and Financial Surveys. The current issue analyzes the latest public finance developments, updates medium-term fiscal projections, and assesses policies aimed at placing public finances on a sustainable footing. An analytical chapter employs extensive firm-level data sets as well as new sources of data on tax policy and tax administration for advanced economies, emerging market economies, and low-income developing countries to assess the extent of resource misallocation within countries, focusing on how the design of the tax system may affect resource allocation.

Digital Da Vinci Mar 19 2022 "Science is art," said Regina Dugan, senior executive at Google and former director of DARPA. "It is the process of creating something that never exists before. ... It makes us ask new questions about ourselves, others; about ethics, the future." This second volume of the Digital Da Vinci book series leads the discussions on the world's first computer art in the 1950s and the actualization of Star Trek's holodeck in the future with the help of artificial intelligence and cyborgs. In this book, Gavin Sade describes experimental creative practices that bring together arts, science and technology in imaginative ways; Mine Özkar expounds visual computation for good designs based on repetition and variation; Raffaella Folgieri, Claudio Lucchiari, Marco Granato and Daniele Grechi introduce BrainArt, a brain-computer interface that allows users to create drawings using their own cerebral rhythms; Nathan Cohen explores artificially created spaces that enhance spatial awareness and challenge our perception of what we encounter; Keith Armstrong discusses embodied experiences that affect the mind and body of participating audiences; Diomidis Spinellis uses Etoys and Squeak in a scientific experiment to teach the concept of physical computing; Benjamin Cowley explains the massively multiplayer online game "Green My Place" aimed at achieving behavior transformation in energy awareness; Robert Niewiadomski and Dennis Anderson portray 3-D manufacturing as the beginning of common creativity revolution; Stephen Barrass takes 3-D printing to another dimension by fabricating an object from a sound recording; Mari Velonaki examines the element of surprise and touch sensing in human-robot interaction; and Roman Danylak surveys the media machines in light of Marshall McLuhan's dictum "the medium is the message." Digital Da Vinci: Computers in the Arts and Sciences is dedicated to polymathic education and interdisciplinary studies in the digital age empowered by computer science. Educators and researchers ought to encourage the new generation of scholars to become as well rounded as a Renaissance man or woman.

Analysis of renewable energy integration options in urban energy systems with centralized energy parks Jun 17 2019 Several variations to the composition and operation strategy of a metropolitan region's centralized energy park are analyzed in this work. These variations are defined in an attempt to increase the system's share of renewable energy (RE) in electricity and district heating consumption, as well as the share of power from Combined Heat and Power (CHP) plants in electricity consumption. A decrease in the system's total annual CO2 emissions and total annual costs is also pursued. In particular, two RE integration options are analyzed: Power to Heat (PtH) units, and Power to Gas to Combined Heat and Power (PtGtCHP) plants. In dieser Arbeit werden mehrere Variationen zur zentralen Energieversorgung einer Metropolregion modelliert, simuliert und analysiert. Ziel dieser Variationen ist es, zum einen den Anteil Erneuerbarer Energien (EE) in der Strom- und Fernwärmeversorgung und zum anderen den Anteil des Stroms aus Kraft-Wärme-Kopplungsanlagen in der Stromversorgung zu erhöhen. Dabei wird auch eine Verringerung der jährlichen CO2-Emissionen sowie der jährlichen Gesamtkosten des Systems angestrebt. Insbesondere werden zwei Optionen für die Integration der EE analysiert: „Power to Heat“-Anlagen (PtH) und „Power to Gas to Combined Heat and Power“-Anlagen (PtGtCHP).

Recycling of Polyethylene Terephthalate Jul 11 2021 Polyethylene terephthalate (PET) is the most recycled plastic in the world. This book covers all from the world market of PET to the many technologies and processes developed for separation, decontamination, recycling and manufacturing into food-grade and non-food-grade products of PET. Also, regulations, testing methods and analytical procedures according to the current regulatory framework are presented.

Opportunistic Spectrum Sharing and White Space Access Nov 22 2019 Details the paradigms of opportunistic spectrum sharing and white space access as effective means to satisfy increasing demand for high-speed wireless communication and for novel wireless communication applications This book addresses opportunistic spectrum sharing and white space access, being particularly mindful of practical considerations and solutions. In Part I, spectrum sharing implementation issues are considered in terms of hardware platforms and software architectures for realization of flexible and spectrally agile transceivers. Part II addresses practical mechanisms supporting spectrum sharing, including spectrum sensing for opportunistic spectrum access, machine learning and decision making capabilities, aggregation of spectrum opportunities, and spectrally-agile radio waveforms. Part III presents the ongoing work on policy and regulation for efficient and reliable spectrum sharing, including major recent steps forward in TV White Space (TVWS) regulation and associated geolocation database approaches, policy management aspects, and novel licensing schemes supporting spectrum sharing. In Part IV, business and economic aspects of spectrum sharing are considered, including spectrum value modeling, discussion of issues around disruptive innovation that are pertinent to opportunistic spectrum sharing and white space access, and business benefits assessment of the novel spectrum sharing regulatory proposal Licensed Shared Access. Part V discusses deployments of opportunistic spectrum sharing and white space access solutions in practice, including work on TVWS system implementations, standardization activities, and development and testing of systems according to the standards. Discusses aspects of pioneering standards such as the IEEE 802.22 "Wi-Far" standard, the IEEE 802.11af "White-Fi" standard, the IEEE Dynamic Spectrum Access Networks Standards Committee standards, and the ETSI Reconfiguration Radio Systems standards Investigates regulatory and regulatory-linked solutions assisting opportunistic spectrum sharing and white space access, including geo-location database approaches and licensing enhancements Covers the pricing and value of spectrum, the economic effects and potentials of such technologies, and provides detailed business assessments of some particularly innovative regulatory proposals The flexible and efficient use of radio frequencies is necessary to cater for the increasing data traffic demand worldwide. This book addresses this necessity through its extensive coverage of opportunistic spectrum sharing and white space access solutions. Opportunistic Spectrum Sharing and White Space Access: The Practical Reality is a great resource for telecommunication engineers, researchers, and students.

Advances in Materials Technology for Fossil Power Plants Aug 12 2021 Conference proceedings covering the latest technology developments for fossil fuel power plants, including nickel-based alloys for advanced ultrasupercritical power plants, materials for turbines, oxidation and corrosion, welding and weld performance, new alloys concepts, and creep and general topics.

Shifting Power in Asia-Pacific? Dec 24 2019 This book investigates whether a power shift has taken place in the Asia-Pacific region since the end of the Cold War. By systematically examining the development of power dynamics in Asia-Pacific, it challenges the notion that a wealthier and militarily more powerful China is automatically turning the regional tides in its favour. With a special emphasis on Sino-US competition, the book explores the alleged linkage between the regional distribution of relevant material and immaterial capabilities, national power and the much-cited regional power shift. The book presents a novel concept for measuring power in international relations by outlining a composite index on aggregated power (CIAP) that includes 55 variables for 44 regional countries and covers a period of twenty years. Moreover, it develops a middle power theory that outlines the significance of middle powers in times of major power shifts. By addressing political, military and economic cooperation via a structured-focused comparison and by applying a comparative-historical analysis, the book analyses in depth the bilateral relations of six regional middle powers to Washington and Beijing.

What's Wrong with Rights? Nov 15 2021 Are natural rights 'nonsense on stilts', as Jeremy Bentham memorably put it? Must the very notion of a right be individualistic, subverting the common good? Should the right against torture be absolute, even though the heavens fall? Are human rights universal or merely expressions of Western neo-imperial arrogance? Are rights ethically fundamental, proudly impervious to changing circumstances? Should judges strive to extend the reach of rights from civil Hamburg to anarchical Basra? Should judicial oligarchies, rather than legislatures, decide controversial ethical issues by inventing novel rights? Ought human rights advocates learn greater sympathy for the dilemmas facing those burdened with government? These are the questions that What's Wrong with Rights? addresses. In doing so, it draws upon resources in intellectual history, legal philosophy, moral philosophy, human rights literature, and the judgments of courts. It ranges from debates about property in medieval Christendom, through Confucian rights-scepticism, to contemporary discussions about the remedy for global hunger and the justification of killing. And it straddles assisted dying in Canada, the military occupation of Iraq, and genocide in Rwanda. What's Wrong with Rights? concludes that much contemporary rights-talk obscures the importance of fostering civic virtue, corrodes military effectiveness, subverts the democratic legitimacy of law, proliferates publicly onerous rights, and undermines their authority and credibility. The solution to these problems lies in the abandonment of rights-fundamentalism and the recovery of a richer public discourse about ethics, one that includes talk about the duty and virtue of rights-holders.

Software Engineering for Resilient Systems Jul 19 2019 This book constitutes the refereed proceedings of the 7th International Workshop on Software Engineering for Resilient Systems, SERENE 2015, held in Paris, France, in September 2015. The 10 revised technical papers presented were carefully reviewed and selected from 18 submissions. The papers are organized in topical sections on development of resilient systems, verification, validation and evaluation of resilience, case studies and applications.

Balanced Trade Feb 18 2022 How should a principled nation which believes in the benefits of mutually beneficial trade respond to the predations of mercantilist trading partners and imbalanced trade? Many argue that the response should be to do little or nothing. Balanced Trade argues that achieving the full benefits of international trade requires an effective response. Although trade deficits provide short-term gains in consumption, these are combined with long-term losses in consumption, innovation, investment, employment and power. Furthermore, market mechanisms do not correct trade imbalances that result from mercantilism, nor do they compensate for the long term shift in production and consumption towards the mercantilist. Balancing trade can make important short run and long run contributions to economic stability and prosperity. In America today, despite the growing evidence that imbalanced free trade is not working, many American economists remain adamant in their promotion of free trade. They are also quick to label actions taken to balance trade as protectionism. The political system has also failed to effectively address the problem of imbalanced trade, and the Federal Reserve has often exacerbated rather than addressed the challenge. We show that the classical economic arguments against mercantilism do not justify doing nothing. Effectively responding to imbalanced trade and mercantilism requires careful selection of strategy in order to achieve multiple objectives: balancing trade while maintaining the benefits of international trade, avoiding unnecessary inefficiencies, and maintaining compliance with international law. One of the best options is the Scaled Tariff. By targeting countries with which the United States has a large current account deficit, the Scaled Tariff would efficiently, legally, and effectively balance trade. It would be applied to all imported goods from trade surplus countries that have had a sizable trade surplus with the United States over the most recent four economic quarters.The tariff rate would be designed to take in a portion (e.g. 50%) of the bilateral trade deficit (goods plus services) as revenue. No particular product is protected; the scaled tariff simply changes the terms of trade between the two countries, much as currency devaluation would change the terms of trade with all countries.

The Oxford Handbook of Comparative Regionalism Sep 01 2020 A systematic and wide-ranging survey of the scholarship on regionalism, regionalisation, and regional governance. Unpacking the major debates, leading authors of the field synthesise the state of the art, provide a guide to the comparative study of regionalism, and identify future avenues of research. **Delivering Value with BIM** Jun 29 2020 Building Information Modelling (BIM) is a global phenomenon which is gaining significant momentum across the world. Currently there is little information on how to realise and monitor benefits from implementing BIM across the life-cycle of a built environment asset. This book provides a practical and strategic framework to realise value from implementing BIM by adapting Benefit Realisation Management theory. It presents an approach for practitioners aiming to implement BIM across the life-cycle of built environment assets, including both buildings and infrastructure. Additionally, the book features: wide-ranging information about BIM, the challenges of monitoring progress towards benefit goals and the greater context of implementation; a set of dictionaries that illustrate: how benefits can be achieved, what the benefit flows are and the enabling tools and processes that contribute to achieving and maximising them; a suite of measures that can serve to monitor progress with examples of how they have been used to measure benefits from BIM; real-world examples from across the world and life-cycle phases that show how these benefits can be achieved; and information on international maturity and competency measures to complement the value realisation framework. Including a blend of academic and industry input, this book has been developed in close collaborative consultation with industry, government and international research organisations and could be used for industry courses on BIM benefits and implementation for asset management or by universities that teach BIM-related courses.

An Introduction to Thermodynamic Cycle Simulations for Internal Combustion Engines Jan 17 2022 This book provides an introduction to basic thermodynamic engine cycle simulations, and provides a substantial set of results. Key features includes comprehensive and detailed documentation of the mathematical foundations and solutions required for thermodynamic engine cycle simulations. The book includes a thorough presentation of results based on the second law of thermodynamics as well as results for advanced, high efficiency engines. Case studies that illustrate the use of engine cycle simulations are also provided.

Fiscal Challenges of Population Aging in Brazil Jan 05 2021 In recent decades, population has been aging fast in Brazil while old age pensions and healthrelated spending have increased. As the population ages, the spending trend threaten to reach unsustainable levels absent reforms. Increasing the retirement age is key, but by itself will not provide sufficient savings to close the pension system financing gap, and reforms reducing replacement rates are necessary. In the area of health, there is scope for improving expenditure efficiency by strengthening outpatient care and regional networks, and developing clinical guidelines for cost-effective treatments and drugs. Reforms are urgent, so that they can be gradual.

Biosensor Based Advanced Cancer Diagnostics Jul 23 2022 Early diagnosis of cancer and other non-oncological disorders gives a significant advantage for curing the disease and improving patient's life expectancy. Recent advances in biosensor-based techniques which are designed for specific biomarkers can be exploited for early diagnosis of diseases. Biosensor Based Advanced Cancer Diagnostics covers all available biosensor-based approaches and comprehensive technologies; along with their application in diagnosis, prognosis and therapeutic management of various oncological disorders. Besides this, current challenges and future aspects of these diagnostic approaches have also been discussed. This book offers a view of recent advances and is also helpful for designing new biosensor-based technologies in the field of medical science, engineering and biomedical technology. Biosensor Based Advanced Cancer Diagnostics helps biomedical engineers, researchers, molecular biologists, oncologists and clinicians with the development of point of care devices for disease diagnostics and prognostics. It also provides information on developing user friendly, sensitive, stable, accurate, low cost and minimally invasive modalities which can be adopted from lab to clinics. This book covers in-depth knowledge of disease biomarkers that can be exploited for designing and development of a range of biosensors. The editors have summarized the potential cancer biomarkers and methodology for their detection, plus transferring the developed system to clinical application by miniaturization and required integration with microfluidic systems. Covers design and development of advanced platforms for rapid diagnosis of cancerous biomarkers Takes a multidisciplinary approach to sensitive transducers development, nano-enabled advanced imaging, miniaturized analytical systems, and device packaging for point-of-care applications Offers an insight into how to develop cost-effective diagnostics for early detection of cancer

5G Mobile Communications May 09 2021 This book will help readers comprehend technical and policy elements of telecommunication particularly in the context of 5G. It first presents an overview of the current research and standardization practices and lays down the global frequency spectrum allocation process. It further lists solutions to accommodate 5G spectrum

requirements. The readers will find a considerable amount of information on 4G (LTE-Advanced), LTE-Advance Pro, 5G NR (New Radio); transport network technologies, 5G NGC (Next Generation Core), OSS (Operations Support Systems), network deployment and end-to-end 5G network architecture. Some details on multiple network elements (end products) such as 5G base station/small cells and the role of semiconductors in telecommunication are also provided. Keeping trends in mind, service delivery mechanisms along with state-of-the-art services such as MFS (mobile financial services), mHealth (mobile health) and IoT (Internet-of-Things) are covered at length. At the end, telecom sector's burning challenges and best practices are explained which may be looked into for today's and tomorrow's networks. The book concludes with certain high level suggestions for the growth of telecommunication, particularly on the importance of basic research, departure from ten-year evolution cycle and having a 20–30 year plan. Explains the conceivable six phases of mobile telecommunication's ecosystem that includes R&D, standardization, product/network/device & application development, and burning challenges and best practices Provides an overview of research and standardization on 5G Discusses solutions to address 5G spectrum requirements while describing the global frequency spectrum allocation process Presents various case studies and policies Provides details on multiple network elements and the role of semiconductors in telecommunication Presents service delivery mechanisms with special focus on IoT

Studies on China's Special Economic Zones 2 Jul 31 2020 The book provides an authoritative study on Special Economic Zones. The scope of the articles will include new theories, methods and discoveries in SEZ study, and specifically provide recent achievements in Special Economic Zones. The journal is aimed at economics undergraduates, postgraduates, economics researchers in social science institutions and the government. Special Economic Zone mode provides an easy approach to complete modernization in developing countries like China, the reader can get some important data source and major results in this area.

ECRM2013-Proceedings of the 12th European Conference on Research Methods Jun 10 2021 Complete proceedings of the 13th European Conference on Research Methodology for Business and Management Studies ECRM 2013 PRINT version Published by Academic Conferences and Publishing International Limited.

Eco-Architecture V Feb 24 2020 This book contains the proceedings of the fifth International Conference on Harmonisation between Architecture and Nature (Eco-Architecture 2014). Eco-Architecture implies a new approach to the design process intended to harmonise its products with nature. This involves ideas such as minimum use of energy at each stage of the building process, taking into account the amount required during the extraction and transportation of materials, their fabrication, assembly, building erection, maintenance and eventual future recycling. Another important issue is the adaptation of the architectural design to the natural environment, learning from nature and long time honoured samples of traditional constructions. The papers in this book deal with topics such as building technologies, design by passive systems, design with nature, cultural sensitivity, life cycle assessment, resources and rehabilitation and many others. Also included are case studies from many different places around the world. Eco-Architecture by definition is a highly multi-disciplinary subject. Eco-Architecture V: Harmonisation between Architecture and Nature will therefore be of interest to, in addition to architects, many other professionals, including engineers, planners, physical scientists, sociologists and economists. Topics covered include: Design with nature; Energy efficiency; Building technologies; Ecological impacts of materials; Bioclimatic design; Water quality; Green facades; Ecological and cultural sensitivity; Education and training; Case studies; Design by passive systems; Adapted reuse; Life cycle assessment and durability; Transformative design; Sustainability indices in architecture.

JEE Advanced 2018 Paper 1 & 2 Solved Papers Oct 26 2022 JEE Advanced 2018 Paper 1 & 2 Solved Papers The books "41 Years IIT-JEE Advanced + 17 yrs JEE Main/ AIEEE Topic-wise Solved Paper PHYSICS, CHEMISTRY & MATHEMATICS" are the first integrated book, which contains topic-wise collection of past JEE Advanced (including 1978-2012 IIT-JEE & 2013-18 JEE Advanced) questions from 1978 to 2018 and past JEE Main (including 2002-2012 AIEEE & 2013-18 JEE Main) questions from 2002 to 2018. The books are divided into 17/ 23/ 22 chapters in PCM respectively. The flow of chapters has been aligned as per the NCERT books. Each chapter divides the questions into 9 categories (as per the NEW IIT pattern) - Fill in the Blanks, True/False, MCQ 1 correct, MCQ more than 1 correct, Passage Based, Assertion-Reason, Multiple Matching, Integer Answer and Subjective Questions. All the Screening and Mains papers of IIT-JEE have been incorporated in the book. Detailed solution of each and every question has been provided for 100% conceptual clarity of the student. Well elaborated detailed solutions with user friendly language provided at the end of each chapter. Solutions have been given with enough diagrams, proper reasoning to bring conceptual clarity. The students are advised to attempt questions of a topic immediately after they complete a topic in their class/school/home. The book contains around 3230+ in each subject.

Workers and the Global Informal Economy Oct 02 2020 The global financial crisis and subsequent increase in social inequality has led in many cases to a redrawing of the boundaries between formal and informal work. This interdisciplinary volume explores the role of informal work in today's global economy, presenting economic, legal, sociological, historical, anthropological, political and cultural perspectives on the topic. Workers and the Global Informal Economy explores varying definitions of informality in the backdrop of neo-liberal market logic, exploring how it manifests itself in different regions around the world, and its relationship with formal work. This volume demonstrates how neo-liberalism has been instrumental in accelerating informality and has resulted in the increasingly precarious position of the informal worker. Using different methodological approaches and regional focuses, this book considers key questions such as whether workers exercise choice over their work; how constrained such choices are; how social norms shape such choices; how work affects their well-being and agency; and what role culture plays in the determination of informality. This interdisciplinary collection will be of interest to policy-makers and researchers engaging with informality from different disciplinary and regional perspectives.

Ships and Offshore Structures XIX Dec 16 2021 This three-volume work presents the proceedings from the 19th International Ship and Offshore Structures Congress held in Cascais, Portugal on 7th to 10th September 2015. The International Ship and Offshore Structures Congress (ISSC) is a forum for the exchange of information by experts undertaking and applying marine structural research. The aim of

Low and Lower Fertility Aug 20 2019 This volume examines two distinct low fertility scenarios that have emerged in economically advanced countries since the turn of the 20th century: one in which fertility is at or near replacement-level and the other where fertility is well below replacement. It explores the way various institutions, histories and cultures influence fertility in a diverse range of countries in Asia, Europe, North America and Australia. The book features invited papers from the Conference on Low Fertility, Population Aging and Population Policy, held December 2013 and co-sponsored by the East-West Center and the Korea Institute for Health and Social Affairs (KIHASA). It first presents an overview of the demographic and policy implications of the two low fertility scenarios. Next, the book explores five countries currently experiencing low fertility rates: China, Hong Kong, Japan, Singapore and South Korea. It then examines three countries that have close to replacement-level fertility: Australia, the Netherlands and the United States. Each country is featured in a separate chapter written by a demographer with expert knowledge in the area. Very low fertility is linked to a number of conditions countries face, including a declining population size. At the same time, low fertility and its effect on the age structure, threatens social welfare policies. This book goes beyond the technical to examine the core institutional, policy and cultural factors behind this increasingly important issue. It helps readers to make cross-country comparisons and gain insight into how diverse institutions, policies and culture shape fertility levels and patterns.

Microwave Materials and Applications, 2 Volume Set Dec 04 2020 The recent rapid progress in wireless telecommunication, including the Internet of Things, 5th generation wireless systems, satellite broadcasting, and intelligent transport systems has increased the need for low-loss dielectric materials and modern fabrication techniques. These materials have excellent electrical, dielectric, and thermal properties and have enormous potential, especially in wireless communication, flexible electronics, and printed electronics. Microwave Materials and Applications discusses the methods commonly employed for measuring microwave dielectric properties, the various attempts reported to solve problems of materials chemistry and crystal structure, doping, substitution, and composite formation, highlighting the processing techniques, morphology influences, and applications of microwave materials whilst summarizing many of the recent technical research accomplishments in the area of microwave dielectrics and applications Chapters examine: Oxide ceramics for dielectric resonators and substrates HTCC, LTCC and ULTCC tapes for substrates Polymer ceramic composites for printed circuit boards Elastomer-ceramic composites for flexible electronics Dielectric inks EMI shielding materials Microwave ferrites A comprehensive Appendix presents the fundamental properties for more than 4000 low-loss dielectric ceramics, their composition, crystal structure, and their microwave dielectric properties. Microwave Materials and Applications presents a comprehensive view of all aspects of microwave materials and applications, making it useful for scientists, industrialists, engineers, and students working on current and emerging applications of wireless communications and consumer electronics.

Advanced Nutrition and Dietetics in Nutrition Support Sep 13 2021 Written in conjunction with the British Dietetic Association, Advanced Nutrition and Dietetics in Nutrition Support provides a thorough and critical review of the fundamental and applied literature in nutrition support. Extensively evidence-based and internationally relevant, it discusses undernutrition, nutritional screening, assessment and interventions, as well as key clinical conditions likely to require nutrition support, and the approaches to managing this in each of these conditions. Clinically oriented, Advanced Nutrition and Dietetics in Nutrition Support is the ideal reference for all those managing undernutrition in a range of clinical areas.

Paper-based Diagnostics Mar 07 2021 This book explores the status of paper-based diagnostic solutions, or Microfluidics 2.0. The contributors explore: how paper-based tests can be widely distributed and utilized by semi-skilled personnel; how close to commercial applications the technology has become, and what is still required to make paper-based diagnostics the game-changer it can be. The technology is examined through the lens of the World Health Organization's ASSURED criteria for low-resource countries (Affordable, Sensitive, Specific, User-friendly, Rapid and robust, Equipment-free, and Deliverable to end-users). Its applications have to include: health technology, environmental technology, food safety, and more. This book is appropriate for researchers in these areas, as well as those interested in microfluidics, and includes chapters dedicated to principles such as theory of flow and surface treatments; components such as biomarkers and detection; and current methods of manufacturing. Discusses how paper-based diagnostics can be used in developing countries by comparing current diagnostic tests with the World Health Organization's ASSURED criteria Examines how paper-based diagnostics could be integrated with other technologies, such as printed electronics, and the Internet of Things. Outlines how semi-skilled personnel across a variety of fields can implement paper-based diagnostics

Nursing Informatics for the Advanced Practice Nurse Jun 22 2022 Designed specifically for graduate-level nursing informatics courses, this is the first text to focus on using technology with an interprofessional team to improve patient care and safety. It delivers an expansive and innovative approach to devising practical methods of optimizing technology to foster quality of patient care and support population health initiatives. Based on the requirements of the DNP Essential IV Core Competency for Informatics and aligning with federal policy health initiatives, the book describes models of information technology the authors have successfully used in health IT, as well as data and analytics used in business, for-profit industry, and not-for-profit health care association settings, which they have adapted for nursing practice in order to foster optimal patient outcomes. The authors espouse a hybrid approach to teaching with a merged competency and concept-based curriculum. With an emphasis on the benefits of an interprofessional team, the book describes the most effective approaches to health care delivery using health information technology. It describes a nursing informatics model that is comprised of three core domains: point-of-care technology, data management and analytics, and patient safety and quality. The book also includes information on point-of-care applications, population health, data management and integrity, and privacy and security. New and emerging technologies explored include genomics, nanotechnology, artificial intelligence, and data mining. Case studies and critical thinking exercises support the concept-based curriculum and facilitate out-of-the-box thinking. Supplemental materials for instructors include PowerPoint slides and a test bank. While targeted primarily for the nursing arena, the text is also of value in medicine, health information management, occupational therapy, and physical therapy. Key Features: Addresses DNP Essential IV Core Competency for Informatics Focuses specifically on using nursing informatics expertise to improve population health, quality, and safety Advocates an interprofessional team approach to optimizing health IT in all practice settings Stimulates critical thinking skills that can be applied to all aspects of IT health care delivery Discusses newest approaches to interprofessional education for IT health care delivery

Digital Afterlife Feb 06 2021 Despite the range of studies into grief and mourning in relation to the digital, research to date largely focuses on the cultural practices and meanings that are played out in and through digital environments. Digital Afterlife brings together experts from diverse fields who share an interest in Digital Afterlife and the wide-ranging issues that relate to this. The book covers a variety of matters that have been neglected in other research texts, for example: The legal, ethical, and philosophical conundrums of Digital Afterlife The ways digital media are currently being used to expand the possibilities of commemorating the dead and managing the grief of those left behind Our lives are shaped by and shape the creation of our Digital Afterlife as the digital has become a taken for granted aspect of human experience. This book will be of interest to undergraduates from computing, theology, business studies, philosophy, psychology, sociology, and education from all types of institutions. Secondary audiences include researchers and postgraduate researchers with an interest in the digital. At a practical level, the cost of data storage and changing data storage systems mitigate the likelihood of our digital presence existing in perpetuity. Whether we create accidental or intentional digital memories, this has psychological consequences for ourselves and for society. Essentially, the foreverness of forever is in question. Maggi Savin-Baden is Professor of Higher Education Research at the University of Worcester. She has a strong publication record of over 50 research publications and 17 books. Victoria Mason-Robbie is a Chartered Psychologist and an experienced lecturer having worked in the Higher Education sector for over 15 years. Her current research focuses on evaluating web-based avatars, pedagogical agents, and virtual humans.

Austerity May 21 2022 The author examines the history of austerity efforts in order to access the possibility of success today.

Fundamentals of Public Safety Networks and Critical Communications Systems Apr 27 2020 A timely overview of a complete spectrum of technologies specifically designed for public safety communications as well as their deployment as management In our increasingly disaster-prone world, the need to upgrade and better coordinate our public safety networks combined with successful communications is more critical than ever. Fundamentals of Public Safety Networks and Critical Communications Systems fills a gap in the literature by providing a book that reviews a comprehensive set of technologies, from most popular to the most advanced communications technologies that can be applied to public safety networks and mission-critical communications systems. The book explores the technical and economic feasibility, design, application, and sustainable operation management of these vital networks and systems. Written by a noted expert in the field, the book provides extensive coverage of systems, services, end-user devices, and applications of public-safety services and technologies. The author explores the potential for advanced public safety systems, and this comprehensive text covers all aspects of the public safety and critical communications network field. This important book: Provides an introduction to and discussion of the common characteristics of our critical communications systems Presents a review of narrowband technologies such as Project 25, TETRA, and DMR as well as the broadband technologies such as the LTE technology Focuses on the emerging technologies that can be adopted to improve our vital communications systems Discusses deployment of such technologies, including economics and finance, planning and project management Provides, in detail, the issues and solutions related to the management of such communications networks Offers a complete list of standards documents Written for professionals in the industry, academics, and government and regulatory agencies, Fundamentals of Public Safety Networks and Critical Communications Systems offers a review of the most significant safety technologies, explores the application for advanced technologies, and examines the most current research.

Advanced Digital Optical Communications Aug 24 2022 This second edition of Digital Optical Communications provides a comprehensive treatment of the modern aspects of coherent homodyne and self-coherent reception techniques using algorithms incorporated in digital signal processing (DSP) systems and DSP-based transmitters to overcome several linear and nonlinear transmission impairments and frequency mismatching between the local oscillator and the carrier, as well as clock recovery and cycle slips. These modern transmission systems have emerged as the core technology for Tera-bits per second (bps) and Peta-bps optical Internet for the near future. Featuring extensive updates to all existing chapters, Advanced Digital Optical Communications, Second Edition: Contains new chapters on optical fiber structures and propagation, optical coherent receivers, DSP equalizer algorithms, and high-order spectral DSP receivers Examines theoretical foundations, practical case studies, and MATLAB® and Simulink® models for simulation transmissions Includes new end-of-chapter practice problems and useful appendices to supplement technical information Downloadable content available with qualifying course adoption Advanced Digital Optical Communications, Second Edition supplies a fundamental understanding of digital communication applications in optical communication technologies, emphasizing operation principles versus heavy mathematical analysis. It is an ideal text for aspiring engineers and a valuable professional reference for those involved in optics, telecommunications, electronics, photonics, and digital signal processing.

Handbook of Flexible and Stretchable Electronics Apr 20 2022 Flexibility and stretchability of electronics are crucial for next generation electronic devices that involve skin contact sensing and therapeutic actuation. This handbook provides a complete entrée to the field, from solid-state physics to materials chemistry, processing, devices, performance, and reliability testing, and integrated systems development. This work shows how microelectronics, signal processing, and wireless communications in the same circuitry are impacting electronics, healthcare, and energy applications. Key Features: • Covers the fundamentals to device applications, including solid-state and mechanics, chemistry, materials science, characterization techniques, and fabrication; • Offers a comprehensive base of knowledge for moving forward in this field, from foundational research to technology development; • Focuses on processing, characterization, and circuits and systems integration for device applications; • Addresses the basic physical properties and mechanics, as well as the nuts and bolts of reliability and performance analysis; • Discusses various technology applications, from printed electronics to logic and memory devices, sensors, actuators, displays, and energy storage and harvesting. This handbook will serve as the one-stop knowledge base for readership who are interested in flexible and stretchable electronics.

Capitalising Economic Power in the US Nov 03 2020 This book examines the American industrial strategy, from the late 70s to the present day, in what is now known as the 'neoliberal era'. The author illustrates the ways in which the protection and promotion of American companies and industries took place in the context of the international 'free market'. He provides clear evidence of how the economic power of the United States – wielded to influence the formal and informal institutions of the neoliberal order – has been used as a tool for enhancing its competitive advantage against other world economies.

2.5D Printing Sep 20 2019 A guide that examines the history and current state of 2.5D printing and explores the relationship between two and three dimensions 2.5D Printing: Bridging the Gap Between 2D and 3D Applications examines the relationship between two- and three-dimensional printing and explores the current ideas, methods, and applications. It provides insights about the diversity of our material culture and heritage and how this knowledge can be used to design and develop new methods for texture printing. The authors review the evolving research and interest in working towards developing methods to: capture, measure and model the surface qualities of 3D and 2D objects, represent the appearance of surface, material and textural qualities, and print or reproduce the material and textural qualities. The text reflects information on the topic from a broad range of fields including science, technology, art, design, conservation, perception, and computer modelling. 2.5D Printing: Bridging the Gap Between 2D and 3D Applications provides a survey of traditional methods of capturing 2.5D through painting and sculpture, and how the human perception is able to judge and compare differences. This important text: Bridges the gap between the technical and perceptual domains of 2D and 3D printing Discusses perceptual texture, color, illusion, and visual impact to offer a unique perspective Explores how to print a convincing rendering of texture that integrates the synthesis of texture in fine art paintings, with digital deposition printing Describes contemporary methods for capturing surface qualities and methods for modelling and measuring, and ways that it is currently being used Considers the impact of 2.5D for future technologies 2.5D Printing is a hands-on guide that provides visual inspiration, comparisons between traditional and digital technologies, case studies, and a wealth of references to the world of texture printing. Please visit the companion website at: www.wiley.com/go/bridging2d3d.

Hamric & Hanson's Advanced Practice Nursing - E-Book Jan 25 2020 Edited and written by a "Who's Who" of internationally known thought leaders in advanced practice nursing, Hamric and Hanson's Advanced Practice Nursing: An Integrative Approach, 7th Edition provides a clear, comprehensive, and contemporary introduction to advanced practice nursing today, addressing all major APRN competencies, roles, and issues. Thoroughly revised and updated, the 7th edition of this bestselling text covers topics ranging from the evolution of advanced practice nursing to evidence-based practice, leadership, ethical decision-making, and health policy. Coverage of the full breadth of APRN core competencies defines and describes all competencies, including direct clinical practice, guidance and coaching, evidence-based practice, leadership, collaboration, and ethical practice. Operationalizes and applies the APRN core competencies to the major APRN roles: the Clinical Nurse Specialist, the Primary Care Nurse Practitioner, the Acute Care Nurse Practitioner (both adult-gerontology and pediatric), the Certified Nurse-Midwife, and the Certified Registered Nurse Anesthetist. Content on managing APRN environments addresses factors such as business planning and reimbursement; marketing, negotiating, and contracting; regulatory, legal, and credentialing requirements; health policy; and nursing outcomes and performance improvement research.