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# September 2014 Exemplar Physical Sciences

**Oswaal Editorial Board**



## **September 2014 Exemplar Physical Sciences:**

*Applied Mathematics* Susmita Sarkar, Uma Basu, Soumen De, 2015-10-13 The book is based on research presentations at the international conference Emerging Trends in Applied Mathematics In the Memory of Sir Asutosh Mookerjee S N Bose M N Saha and N R Sen held at the Department of Applied Mathematics University of Calcutta during 12-14 February 2014. It focuses on various emerging and challenging topics in the field of applied mathematics and theoretical physics. The book will be a valuable resource for postgraduate students at higher levels and researchers in applied mathematics and theoretical physics. Researchers presented a wide variety of themes in applied mathematics and theoretical physics such as emergent periodicity in a field of chaos, Ricci flow equation and Poincaré conjecture, Bose-Einstein condensation, geometry of local scale invariance and turbulence, statistical mechanics of human resource allocation, mathematical modelling of job matching in labour markets, contact problem in elasticity, the Saha equation, computational fluid dynamics with applications in aerospace problems, an introduction to data assimilation, stochastic analysis and bounds on noise for Holling type II model, graph theoretical invariants of chemical and biological systems, strongly correlated phases and quantum phase transitions of ultra-cold bosons and the mathematical modelling of breast cancer treatment. [Intelligent Computing and Information and Communication](#) Subhash Bhalla, Vikrant Bhateja, Anjali A. Chandavale, Anil S. Hiwale, Suresh Chandra Satapathy, 2018-01-19 The volume presents high quality research papers presented at Second International Conference on Information and Communication Technology for Intelligent Systems ICICC 2017. The conference was held during 2-4 August 2017, Pune, India and organized communally by Dr Vishwanath Karad, MIT World Peace University, Pune, India at MIT College of Engineering, Pune and supported by All India Council for Technical Education (AICTE) and Council of Scientific and Industrial Research (CSIR). The volume contains research papers focused on ICT for intelligent computation, communications and audio and video data processing. [Microbiomes of the Built Environment](#) National Academies of Sciences, Engineering, and Medicine, National Academy of Engineering, Division on Engineering and Physical Sciences, Health and Medicine Division, Division on Earth and Life Studies, Board on Infrastructure and the Constructed Environment, Board on Environmental Studies and Toxicology, Board on Life Sciences, Committee on Microbiomes of the Built Environment: From Research to Application, 2017-11-06 People's desire to understand the environments in which they live is a natural one. People spend most of their time in spaces and structures designed, built and managed by humans and it is estimated that people in developed countries now spend 90 percent of their lives indoors. As people move from homes to workplaces, traveling in cars and on transit systems, microorganisms are continually with and around them. The human-associated microbes that are shed along with the human behaviors that affect their transport and removal make significant contributions to the diversity of the indoor microbiome. The characteristics of healthy indoor environments cannot yet be defined nor do microbial clinical and building researchers yet understand how to modify features of indoor environments such as building ventilation systems and

the chemistry of building materials in ways that would have predictable impacts on microbial communities to promote health and prevent disease. The factors that affect the environments within buildings, the ways in which building characteristics influence the composition and function of indoor microbial communities, and the ways in which these microbial communities relate to human health and well-being are extraordinarily complex and can be explored only as a dynamic interconnected ecosystem by engaging the fields of microbial biology and ecology, chemistry, building science, and human physiology. This report reviews what is known about the intersection of these disciplines and how new tools may facilitate advances in understanding the ecosystem of built environments, indoor microbiomes, and effects on human health and well-being. It offers a research agenda to generate the information needed so that stakeholders with an interest in understanding the impacts of built environments will be able to make more informed decisions.

*Paradigm Changes Are Required in HIV Vaccine Research*  
Marc H. V. Van Regenmortel, 2015-12-08

In his 1962 book *The Structure of Scientific Revolutions*, Thomas Kuhn famously argued that researchers in every field of scientific enquiry always operate under a set of presuppositions known as paradigms that are rarely explicitly stated. In the field of HIV vaccine research, several prevailing paradigms led scientists for many years to pursue unfruitful lines of investigations that impeded significant progress. The uncritical acceptance of reigning paradigms makes scientists reluctant to abandon their mistaken assumptions even when they obtain results that are not consistent with the paradigms. The following five paradigms, which disregard the degeneracy of the immune system, were particularly harmful:

1. There is a primary and intrinsic epitope specific for each B cell receptor and for the corresponding monoclonal antibody. In reality, there is no single intrinsic or real epitope for any antibody, but only a diverse group of potential ligands.
2. Reactions with monoclonal antibodies are more specific than the combined reactivity of polyclonal antibodies. In reality, a polyclonal antiserum has greater specificity for a multiepitopic protein because different antibodies in the antiserum recognize separate epitopes on the same protein, giving rise to an additive specificity effect. By focusing vaccine design on single epitope Mab pairs, the beneficial neutralizing synergy that occurs with polyclonal antibody responses is overlooked.
3. The HIV epitope identified by solving the crystallographic structure of a broadly neutralizing Mab-HIV Env complex should be able, when used as immunogen, to elicit antibodies endowed with the same neutralizing capacity as the Mab. Since every anti-HIV bnMab is polyspecific, the single epitope identified in the complex is not necessarily the one that elicited the bnMab. Since hypermutated Mabs used in crystallographic studies differ from their germline-like receptor version present before somatic hypermutation, the identified epitope will not be an effective vaccine immunogen.
4. Effective vaccine immunogenicity can be predicted from the antigenic binding capacity of viral epitopes. Most fragments of a viral antigen can induce antibodies that react with the immunogen, but this is irrelevant for vaccination since these antibodies rarely recognize the cognate intact antigen and even more rarely neutralize the infectivity of the viral pathogen that harbors the antigen.
5. The rational design of vaccine immunogens using reverse vaccinology is superior to the trial and error screening of vaccine

candidates able to induce protective immunity One epitope can be designed to increase its structural complementarity to one particular bnMab but such antigen design is only masquerading as immunogen design because it is assumed that antigenic reactivity necessarily entails the immunogenic capacity to elicit neutralizing antibodies When HIV Env epitopes engineered to react with a bnMab are used to select from human donors rare memory B cells secreting bnAbs this represents antigen design and not immunogen design The aim of this Research Topic is to replace previous misleading paradigms by novel ones that better fit our current understanding of immunological specificity and will help HIV vaccine development **Pattern**

**Recognition and Computer Vision** Qingshan Liu,Hanzi Wang,Zhanyu Ma,Weishi Zheng,Hongbin Zha,Xilin Chen,Liang Wang,Rongrong Ji,2023-12-27 The 13 volume set LNCS 14425 14437 constitutes the refereed proceedings of the 6th Chinese Conference on Pattern Recognition and Computer Vision PRCV 2023 held in Xiamen China during October 13 15 2023 The 532 full papers presented in these volumes were selected from 1420 submissions The papers have been organized in the following topical sections Action Recognition Multi Modal Information Processing 3D Vision and Reconstruction Character Recognition Fundamental Theory of Computer Vision Machine Learning Vision Problems in Robotics Autonomous Driving Pattern Classification and Cluster Analysis Performance Evaluation and Benchmarks Remote Sensing Image Interpretation Biometric Recognition Face Recognition and Pose Recognition Structural Pattern Recognition Computational Photography Sensing and Display Technology Video Analysis and Understanding Vision Applications and Systems Document Analysis and Recognition Feature Extraction and Feature Selection Multimedia Analysis and Reasoning Optimization and Learning methods Neural Network and Deep Learning Low Level Vision and Image Processing Object Detection Tracking and Identification Medical Image Processing and Analysis **Oswaal NTA CUET (UG) | Question Bank Chapterwise & Topicwise General Awareness (2024)** Oswaal Editorial Board,2023-09-14 Description of the product 100% Exam Ready With 2023 CUET UG Exam Papers 2 Slots Fully Solved with Explanations Fill Learning Gaps With Revision Notes Chapter Analysis Crisp Recap with Smart Mind Maps Concept Videos Smart Shortcuts To Solve lengthy problems Final Boost With Tips Tricks to ACE CUET UG in 1 st Attempt Optimising Antibiotic Use: Social and Contextual Issues Carolyn Tarrant,Eva Maria Krockow,Emily Kate Rousham,Björn Rönnerstrand,2021-04-21 **Psychoanalytical neuroscience: Exploring psychoanalytic concepts with neuroscientific methods** Nikolai Axmacher,Henrik Kessler,Gerd Thomas Waldhauser,2015-01-09 Sigmund Freud was a trained neuroanatomist and wrote his first psychoanalytical theory in neuroscientific terms Throughout his life he maintained the belief that at some distant day in the future all psychoanalytic processes could be tied to a neural basis We must recollect that all of our provisional ideas in psychology will presumably one day be based on an organic substructure Freud 1914 On Narcissism An Introduction Fundamental Freudian concepts reveal their foundation in the physiological science of his time most importantly among them the concept of libidinous energy and the homeostatic principle of constancy However the subsequent history of psychoanalysis and neuroscience was mainly

characterized by mutual ignorance or even opposition many scientists accused psychoanalytic viewpoints not to be scientifically testable and many psychoanalysts claimed that their theories did not need empirical support outside of the therapeutic situation On this historical background it may appear surprising that the recent years have seen an increasing interest in re connecting psychoanalysis and neuroscience in various ways By studying psychodynamic consequences of brain lesions in neurological patients by investigating how psychoanalytic therapy affects brain structure and function or even by operationalizing psychoanalytic concepts in well controlled experiments and exploring their neural correlates These empirical studies are accompanied by theoretical work on the philosophical status of the neuropsychanalytic endeavour In this volume we attempt to provide a state of the art overview of this new exciting field All types of submissions are welcome including research in patient populations healthy human participants and animals review articles on some empirical or theoretical aspect and of course also critical accounts of the new field Despite this welcome variability we would like to suggest that all contributions attempt to address one or both of two main questions which should motivate the connection between psychoanalysis and neuroscience and that in our opinion still remain exigent First from the neuroscientific side why should researchers in the neurosciences address psychoanalytic ideas and what is or will be the impact of this connection on current neuroscientific theories Second from the psychoanalytic side why should psychoanalysts care about neuroscientific studies and how can current psychoanalytical theory and practice benefit from their results Of course contributors are free to provide a critical viewpoint on these two questions as well

Oswaal NTA CUET (UG) | Question Bank Chapterwise & Topicwise Logical Reasoning (2024) Oswaal Editorial Board,2023-09-14 Description of the product 100% Exam Ready With 2023 CUET UG Exam Papers 2 Slots Fully Solved with Explanations Fill Learning Gaps With Revision Notes Chapter Analysis Crisp Recap with Smart Mind Maps Concept Videos Smart Shortcuts To Solve lengthy problems Final Boost With Tips Tricks to ACE CUET UG in 1 st Attempt

**Chandra's Cosmos** Wallace H. Tucker,2017-03-28 On July 23 1999 the Chandra X Ray Observatory the most powerful X ray telescope ever built was launched aboard the space shuttle Columbia Since then Chandra has given us a view of the universe that is largely hidden from telescopes sensitive only to visible light In Chandra s Cosmos the Smithsonian Astrophysical Observatory s Chandra science spokesperson Wallace H Tucker uses a series of short connected stories to describe the telescope s exploration of the hot high energy face of the universe The book is organized in three parts The Big covering the cosmic web dark energy dark matter and massive clusters of galaxies The Bad exploring neutron stars stellar black holes and supermassive black holes and The Beautiful discussing stars exoplanets and life Chandra has imaged the spectacular glowing remains of exploded stars and taken spectra showing the dispersal of their elements Chandra has observed the region around the supermassive black hole in the center of our Milky Way and traced the separation of dark matter from normal matter in the collision of galaxies contributing to both dark matter and dark energy studies Tucker explores the implications of these observations in an entertaining informative narrative aimed at space buffs

and general readers alike     Advances in Multimedia Information Processing - PCM 2017 Bing Zeng, Qingming Huang, Abdulmotaleb El Saddik, Hongliang Li, Shuqiang Jiang, Xiaopeng Fan, 2018-05-09 The two volume set LNCS 10735 and 10736 constitutes the thoroughly refereed proceedings of the 18th Pacific Rim Conference on Multimedia PCM 2017 held in Harbin China in September 2017 The 184 full papers presented were carefully reviewed and selected from 264 submissions The papers are organized in topical sections on Best Paper Candidate Video Coding Image Super resolution Deblurring and Dehazing Person Identity and Emotion Tracking and Action Recognition Detection and Classification Multimedia Signal Reconstruction and Recovery Text and Line Detection Recognition Social Media 3D and Panoramic Vision Deep Learning for Signal Processing and Understanding Large Scale Multimedia Affective Computing Sensor enhanced Multimedia Systems Content Analysis Coding Compression Transmission and Processing     Oswaal NTA CUET (UG) Question Bank Quantitative Aptitude, General Awareness & Logical Reasoning (Set of 3 Books)(Entrance Exam Preparation Book 2024) Oswaal Editorial Board, 2023-09-26 Description of the product 100% Exam Ready With 2023 CUET UG Exam Papers 2 Slots Fully Solved with Explanations Fill Learning Gaps With Revision Notes Chapter Analysis Crisp Recap with Smart Mind Maps Concept Videos Smart Shortcuts To Solve lengthy problems Final Boost With Tips Tricks to ACE CUET UG in 1 st Attempt     *Climate Change and Cities* Cynthia Rosenzweig, William D. Solecki, Patricia Romero-Lankao, Shagun Mehrotra, Shobhakar Dhakal, Somayya Ali Ibrahim, 2018-03-29 Climate Change and Cities bridges science to action for climate change adaptation and mitigation efforts in cities around the world     **Investing in Health and Wellbeing** Christopher Dye, 2024-09-17 The proverbial benefits of prevention over cure are self evident and yet we are reluctant to invest in protecting and improving our health Resolution of this age old dilemma begins with a timeless truth the benefits of good health come at a cost prevention is not better than cure at any price Protecting health should be appealing when a high risk high value hazard can be averted rapidly with certainty and at relatively low cost Similar reasoning applies when the goal is to make health gains not merely to avoid health losses Health choices are rational based on values that are personal Investing in Health and Wellbeing When Prevention Is Better than Cure Second Edition provides a framework to promote and protect health as an asset illustrating the principles with practical examples Application of these ideas helps to explain why prevention is a low priority for health services why the world was not ready for the COVID 19 pandemic why deadly infections like tuberculosis are neglected why cigarette smoking is still commonplace why billions still do not have access to safe sanitation and why the response to climate change has been so slow Much more money and effort are invested in health promotion and disease prevention today than is commonly thought but the enormous avoidable burden of illness is reason to look for ways of investing still more Previously published as The Great Health Dilemma ISBN 9780198853824 in 2021 this second updated edition makes prevention part of a broader vision for better health This is an open access title available under the terms of a CC BY NC ND 4 0 International licence It is free to read on the Oxford Academic platform and offered as a free PDF download from OUP

and selected open access locations      Natural Hazards in Australasia James Goff, C. R. de Freitas, 2016-07-11 A textbook designed for students taking a course in natural hazards with an Australasian focus and context In full colour and richly supported by photographs illustrations and maps      **Quantum Structures in Cognitive and Social Science** Diederik Aerts, Jan Broekaert, Liane Gabora, Sandro Sozzo, 2016-06-26 Traditional approaches to cognitive psychology correspond with a classical view of logic and probability theory More specifically one typically assumes that cognitive processes of human thought are founded on the Boolean structures of classical logic while the probabilistic aspects of these processes are based on the Kolmogorovian structures of classical probability theory However growing experimental evidence indicates that the models founded on classical structures systematically fail when human decisions are at stake These experimental deviations from classical behavior have been called paradoxes fallacies effects or contradictions depending on the specific situation where they appear But they involve a broad spectrum of cognitive and social science domains ranging from conceptual combination to decision making under uncertainty behavioral economics and linguistics This situation has constituted a serious drawback to the development of various disciplines like cognitive science linguistics artificial intelligence economic modeling and behavioral finance A different approach to cognitive psychology initiated two decades ago has meanwhile matured into a new domain of research called quantum cognition Its main feature is the use of the mathematical formalism of quantum theory as modeling tool for these cognitive situations where traditional classically based approaches fail Quantum cognition has recently attracted the interest of important journals and editing houses academic and funding institutions popular science and media Specifically within a quantum cognition approach one assumes that human decisions do not necessarily obey the rules of Boolean logic and Kolmogorovian probability and can on the contrary be modeled by the quantum mechanical formalism Different concrete quantum theoretic models have meanwhile been developed that successfully represent the cognitive situations that are classically problematical by explaining observed deviations from classicality in terms of genuine quantum effects such as contextuality emergence interference superposition entanglement and indistinguishability In addition the validity of these quantum models is convincingly confirmed by new experimental tests We also stress that since the use of a quantum theoretic framework is mainly for modeling purposes the identification of quantum structures in cognitive processes does not presuppose without being incompatible with it the existence of microscopic quantum processes in the human brain In this Research Topic we review the major achievements that have been obtained in quantum cognition by providing an accurate picture of the state of the art of this emerging discipline Our overview does not pretend to be either complete or exhaustive But we aim to introduce psychologists and social scientists to this challenging new research area encouraging them at the same time to consider its promising results It is our opinion that if continuous progress in this domain can be realized quantum cognition can constitute an important breakthrough in cognitive psychology and potentially open the way towards a new scientific paradigm in social science      **Biological**



**Threats In The 21st Century: The Politics, People, Science And Historical Roots** Filippa Lentzos,2016-07-13

Biological Threats in the 21st Century offers a fresh understanding of contemporary biological threats to national security. Readers are introduced to the politics, people, science and historical roots of contemporary biological threats through up to date rigorous and accessible chapters written by leading academics and supplemented by expert point of view contributions and interviews. The book provides inspiration and resources for students and researchers as well as policy makers in government, the public policy sector and the wider community. It is particularly pertinent for those interested in biological disarmament, non proliferation, counterterrorism and health security.

**Expeditions in the Long Nineteenth Century** Jörn Happel, Melanie Hussinger, Hajo Raupach, 2024-04-24. This book examines the processes of scientific, cultural, political, technical, colonial and violent appropriation during the 19th century. The 19th century was the century of world travel. The earth was explored, surveyed, described, illustrated and categorized. Travelogues became world bestsellers. Modern technology accompanied the travelers and adventurers: clocks, a postal and telegraph system, surveying equipment and cameras. The world grew together faster and faster. Previously unknown places became better known: the highest peaks, the coldest spots, the hottest deserts and the most remote cities. Knowledge about the white spots of the earth was systematically collected. Those who made a name for themselves in the 19th century are still read today: Alexander von Humboldt or Charles Darwin made the epoch a scientific heyday; Ida Pfeiffer or Isabelle Bird Bishop traveled to distant continents and took their readers at home on insightful journeys; Hermann von Mombach or Sir Richard Burton got to know the most remote languages and regions. There are countless travel reports about a fascinating century which, with surveying and exploration, also brought colonial conquest and exploitation into the world. In ten individual studies, the authors explore travelers from all over the world and analyze their successes. The unifying element of all the studies is the experience of distance and its communication by means of travelogues to the armchair travelers who have stayed at home. This volume will be of value to students and scholars both interested in modern history, social and cultural history and the history of science and technology.

**Social Robots from a Human Perspective** Jane Vincent, Sakari Taipale, Bartolomeo Sapio, Giuseppe Lugano, Leopoldina Fortunati, 2015-05-08. This book presents a comprehensive overview of the human dimension of social robots by discussing both transnational features and national peculiarities. Addressing several issues that explore the human side of social robots, this book investigates what a social robot is and how we might come to think about social robots in the different areas of everyday life. Organized around three sections that deal with Perceptions and Attitudes to Social Robots, Human Interaction with Social Robots and Social Robots in Everyday Life, it explores the idea that even if the challenges of robot technologies can be overcome from a technological perspective, the question remains as to what kind of machine we want to have and use in our daily lives. Lessons learned from previous widely adopted technologies such as smartphones indicate that robot technologies could potentially be absorbed into the everyday lives of humans in such a way that it is the human that determines the human-machine.

interaction In a similar way to how today's information and communication technologies were initially designed for professional industrial use but were soon commercialized for the mass market and then personalized by humans in the course of daily practice the use of social robots is now facing the same revolution of domestication In the context of this transformation which involves the profound embedding of robots in everyday life the human aspect of social robots will play a major part This book sheds new light on this highly topical issue one of the central subjects that will be taught and studied at universities worldwide and that will be discussed widely publicly and repeatedly in the near future High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations National Academies of Sciences, Engineering, and Medicine, National Academy of Engineering, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Connector Reliability for Offshore Oil and Natural Gas Operations, 2018-07-12

Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States Advances in locating deposits and improvements in drilling and recovery technology have made it technically and economically feasible to extract these resources under harsh conditions But extracting these offshore petroleum resources involves the possibility however remote of oil spills with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those performing the extraction The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and thus cleanup can be problematic Bolted connections are an integral feature of deep water well operations High Performance Bolting Technology for Offshore Oil and Natural Gas Operations summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment as well as best practices from other industrial sectors It focuses on critical bolting bolts studs nuts and fasteners used on critical connections

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