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and Application: 2012 Edition

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Millisecond Pulsars Jan 12 2021 This book includes nine chapters written by internationally recognized experts, covering all aspects of millisecond pulsars in one concise and cohesive volume. These aspects include pulsations powered by stellar spin, accretion and thermonuclear burning of accreted matter, their physics and utility, stellar evolution and the extreme physics of super-dense stellar cores. The book includes substantial background material as well as recent theoretical and multi-wavelength observational results. The volume will thus be useful for professional astronomers and graduate students alike. What is the behavior of the strong nuclear interaction, and what are the matter constituents at ultrahigh densities in neutron star cores? How do old neutron stars in binaries evolve? How does their magnetosphere interact with the surrounding plasma to accelerate particles and emit radiation observed at all wavelengths? These are just a few of the questions that millisecond pulsars are helping us answer and will settle in the near future with the next generation of instruments. Such quickly rotating, highly magnetized neutron stars are remarkable natural laboratories that allow us to investigate the fundamental constituents of matter and their interactions under extreme conditions that cannot be reproduced in terrestrial laboratories.

Neuro-inspired Computing for Next-gen AI: Computing Model, Architectures and Learning Algorithms Feb 10 2021

Human-Computer Interaction: Concepts, Methodologies, Tools, and Applications Apr 14 2021 As modern technologies continue to develop and evolve, the ability of users to interface with new systems becomes a paramount concern. Research into new ways for humans to make use of advanced computers and other such technologies is necessary to fully realize the potential of 21st century tools. *Human-Computer Interaction: Concepts, Methodologies, Tools, and Applications* gathers research on user interfaces for advanced technologies and how these interfaces can facilitate new developments in the fields of robotics, assistive technologies, and computational intelligence. This four-volume reference contains cutting-edge research for computer scientists; faculty and students of robotics, digital science, and networked communications; and clinicians invested in assistive technologies. This seminal reference work includes chapters on topics pertaining to system usability, interactive design, mobile interfaces, virtual worlds, and more.

The City of Brass Jun 28 2022 NAMED ONE OF THE BEST BOOKS OF THE YEAR BY Library Journal |

Vulture | The Verge | SYFYWire Step into The City of Brass, the spellbinding debut from S. A. Chakraborty perfect for fans of The Golem and the Jinni, The Grace of Kings, and Uprooted, in which the future of a magical Middle Eastern kingdom rests in the hands of a clever and defiant young con artist with miraculous healing gifts. On the streets of eighteenth-century Cairo, Nahri is a con woman of unsurpassed skill. She makes her living swindling Ottoman nobles, hoping to one day earn enough to change her fortunes. But when Nahri accidentally summons Dara, an equally sly, darkly mysterious djinn warrior, during one of her cons, she learns that even the cleverest of schemes can have deadly consequences. Forced to flee Cairo, Dara and Nahri journey together across hot, windswept sands teeming with creatures of fire and rivers where the mythical marid sleep, past ruins of once-magnificent human metropolises and mountains where the circling birds of prey are more than what they seem, to Daevabad, the legendary city of brass. It's a city steeped in magic and fire, where blood can be as dangerous as any spell; a city where old resentments run deep and the royal court rules with a tenuous grip; a city to which Nahri is irrevocably bound—and where her very presence threatens to ignite a war that has been simmering for centuries.

*Finalist for the World Fantasy Award: Best Novel *Nominated for the Locus Award: Best First Novel *Finalist for the British Fantasy Award: Best Newcomer Featuring a stepback and extra content including a bonus scene and an excerpt from The Kingdom of Copper.

24 by 12 Oct 01 2022 Life is all about the small joys and sorrows, the little successes and goof-ups, the people that surround us, and the everyday moments. 24 by 12 is a celebration of these simple snapshots of life. A shopaholic mom, the monster in the kitchen, a stranger at the bus stop, two lovebirds separated forever—meet all of them and many more in this collection of 24 poems that poses the funny with the poignant, the silly with the serious and the mundane with the impossible. Ride the carousel with a 12-year-old and see the world through her eyes.

Children with Autism Sep 27 2019 This completely revised and substantially expanded new edition embraces new developments in this rapidly developing field. Every chapter has been rewritten with the addition of new material, and a new final chapter on 'Putting the Pieces Together' reflects the authors' conviction that the complexity of autism means that many kinds of information are valuable and need to be taken into account in providing therapy or teaching for children with autism. Other chapters, updated from the first edition, include a description of the latest information on the findings of brain research (put into the context of the development of the human brain and its effect on communication in early childhood), and the contributions of music therapy and psychoanalysis. A very much enlarged chapter on educational provision for children with autism and Asperger's Syndrome provides information on the latest methods for improving the learning of these children, to give them the best possible preparation for a life of greater autonomy and maximum self-satisfaction in the pleasure of human company. New appendices summarise medical diagnostic systems, checklists and questionnaires for identifying autism, and the glossary has been considerably expanded. The wealth of up-to-date information provided will be invaluable not only for researchers and students but also for psychologists, teachers and other professionals, and parents, carers and family members in search of comprehensive and helpful information.

Crime Laboratory Digest Jan 30 2020

Zero Waste Biorefinery Jul 26 2019 This book is a compilation of process, technologies and value added products such as high value biochemicals and biofuels produced from different waste biorefineries. The book is sectioned into four categories providing a comprehensive outlook about zero waste biorefinery and technologies associated with it. The emerging technologies that potentially put back the lignocellulosic waste, municipal solid waste and food waste into intrinsic recycling for production of high value biochemicals and bioenergy, along with associated challenges and opportunities are also included. The content also focuses on algal biorefineries leading to sustainable circular economy through production of broad spectrum of bioactive compounds, bioethanol, biobutanol, biohydrogen, biodiesel through integrated biorefinery approach. The volume also includes chapters on conversion technologies and mathematical models applied for process optimization. A sound foundation about the underlying principles of biorefineries and a up-to-date state-of-the-art based overview on the latest advances in terms of scientific knowledge, techno-economic developments and life cycle assessment methodologies of integrated waste biorefinery is provided. This volume will be of great interest to professionals, post-graduate students and policy makers involved in waste management, biorefineries, circular economy and sustainable development.

Bacterial Invasion into Eukaryotic Cells Mar 02 2020 This latest volume in the excellent Subcellular Biochemistry series is the first attempt to give an in-depth overview of the field of bacterial cell invasion. The current knowledge about all well-studied bacteria with the ability to invade eukaryotic cells is brought together, including bacteria pathogenic to humans and animals as well as the symbiotic rhizobia. Several chapters also deal with new approaches and applications regarding invasive bacteria. The book, which includes contributions from worldwide experts, discusses bacterial invasion ability within the context of bacteria-host cell interaction with the main focus on pathogenicity.

The Empire of Gold Mar 26 2022 “No series since George R.R. Martin’s A Song of Ice and Fire has quite captured both palace intrigue and the way that tribal infighting and war hurt the vulnerable the most.” —Paste Magazine The

final chapter in the bestselling, critically acclaimed Daevabad Trilogy, in which a con-woman and an idealistic djinn prince join forces to save a magical kingdom from a devastating civil war. Daevabad has fallen. After a brutal conquest stripped the city of its magic, Nahid leader Banu Manizheh and her resurrected commander, Dara, must try to repair their fraying alliance and stabilize a fractious, warring people. But the bloodletting and loss of his beloved Nahri have unleashed the worst demons of Dara's dark past. To vanquish them, he must face some ugly truths about his history and put himself at the mercy of those he once considered enemies. Having narrowly escaped their murderous families and Daevabad's deadly politics, Nahri and Ali, now safe in Cairo, face difficult choices of their own. While Nahri finds peace in the old rhythms and familiar comforts of her human home, she is haunted by the knowledge that the loved ones she left behind and the people who considered her a savior are at the mercy of a new tyrant. Ali, too, cannot help but look back, and is determined to return to rescue his city and the family that remains. Seeking support in his mother's homeland, he discovers that his connection to the marid goes far deeper than expected and threatens not only his relationship with Nahri, but his very faith. As peace grows more elusive and old players return, Nahri, Ali, and Dara come to understand that in order to remake the world, they may need to fight those they once loved . . . and take a stand for those they once hurt.

Alkanes—Advances in Research and Application: 2012 Edition Jun 24 2019 Alkanes—Advances in Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Alkanes. The editors have built Alkanes—Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Alkanes in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Alkanes—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Branching Processes in Biology Sep 07 2020 This book provides a theoretical background of branching processes and discusses their biological applications. Branching processes are a well-developed and powerful set of tools in the field of applied probability. The range of applications considered includes molecular biology, cellular biology, human evolution and medicine. The branching processes discussed include Galton-Watson, Markov, Bellman-Harris, Multitype, and General Processes. As an aid to understanding specific examples, two introductory chapters, and two glossaries are included that provide background material in mathematics and in biology. The book will be of interest to scientists who work in quantitative modeling of biological systems, particularly probabilists, mathematical biologists, biostatisticians, cell biologists, molecular biologists, and bioinformaticians. The authors are a mathematician and cell biologist who have collaborated for more than a decade in the field of branching processes in biology for this new edition. This second expanded edition adds new material published during the last decade, with nearly 200 new references. More material has been added on infinitely-dimensional multitype processes, including the infinitely-dimensional linear-fractional case. Hypergeometric function treatment of the special case of the Griffiths-Pakes infinite allele branching process has also been added. There are additional applications of recent molecular processes and connections with systems biology are explored, and a new chapter on genealogies of branching processes and their applications. Reviews of First Edition: "This is a significant book on applications of branching processes in biology, and it is highly recommended for those readers who are interested in the application and development of stochastic models, particularly those with interests in cellular and molecular biology." (Siam Review, Vol. 45 (2), 2003) "This book will be very interesting and useful for mathematicians, statisticians and biologists as well, and especially for researchers developing mathematical methods in biology, medicine and other natural sciences." (Short Book Reviews of the ISI, Vol. 23 (2), 2003)

Journal of the Indian Chemical Society Jul 06 2020

Nanomaterials Apr 26 2022 The work studies under different physical conditions the carrier contribution to elastic constants in heavily doped optoelectronic materials. In the presence of intense photon field the authors apply the Heisenberg Uncertainty Principle to formulate electron statistics. Many open research problems are discussed and numerous potential applications as quantum sensors and quantum cascade lasers are presented.

Estimating Costing Specification And Valuation In Civil Engineering Nov 02 2022

Continuous Casting Nov 09 2020 The Continuous Casting 2000 symposium maintains the tradition established in 1976 of holding regular events. This millennium event, however, is the first international meeting of the series. The aim is to highlight the importance of continuous casting - of aluminum, copper and magnesium - to the international fabricating industry, focusing on technological advances in all the sectors that are important for the manufacture of high quality continuous cast products.

Biomass and Bioenergy May 04 2020 Biomass obtained from agricultural residues or forest can be used to produce different materials and bioenergy required in a modern society. As compared to other resources available, biomass is

one of the most common and widespread resources in the world. Thus, biomass has the potential to provide a renewable energy source, both locally and across large areas of the world. It is estimated that the total investment in the biomass sector between 2008 and 2021 will reach the large sum of \$104 billion. Presently bioenergy is the most important renewable energy option and will remain so the near and medium-term future. Previously several countries try to explore the utilization of biomass in bioenergy and composite sector. Biomass has the potential to become the world's largest and most sustainable energy source and will be very much in demand. Bioenergy is based on resources that can be utilized on a sustainable basis all around the world and can thus serve as an effective option for the provision of energy services. In addition, the benefits accrued go beyond energy provision, creating unique opportunities for regional development. The present book will provide an up-to-date account of non-wood, forest residues, agricultural biomass (natural fibers), and energy crops together with processing, properties and its applications to ensure biomass utilization and reuse. All aspects of biomass and bioenergy and their properties and applications will be critically re-examined. The book consists of three sections, presenting Non wood and forest products from forestry, arboriculture activities or from wood processing, agricultural biomass (natural fibers) from agricultural harvesting or processing and finally energy crops: high yield crops and grasses grown especially for energy production.

All India Civil List Jul 18 2021

Bacterial Pathogenesis Nov 29 2019 Established almost 30 years ago, *Methods in Microbiology* is the most prestigious series devoted to techniques and methodology in the field. Now totally revamped, revitalized, with a new format and expanded scope, *Methods in Microbiology* will continue to provide you with tried and tested, cutting-edge protocols to directly benefit your research. Focuses on the methods most useful for the microbiologist interested in the way in which bacteria cause disease Includes section devoted to 'Approaches to characterising pathogenic mechanisms' by Stanley Falkow Covers safety aspects, detection, identification and speciation Includes techniques for the study of host interactions and reactions in animals and plants Describes biochemical and molecular genetic approaches Essential methods for gene expression and analysis Covers strategies and problems for disease control

New and Future Developments in Microbial Biotechnology and Bioengineering Jul 30 2022 *New and Future Developments in Microbial Biotechnology and Bioengineering: Sustainable Agriculture: Advances in Microbe-Based Biostimulants* describes advances in microbial mechanisms involved in crop production and stress alleviation. Recent developments in our understanding of the role of microbes in sustainable agriculture and disease management have created a highly potential research area. The plant holobiont has a significant role in stress signaling, nutrient use efficiency, and soil health and fertility for sustainable developments. The mycorrhizosphere, hyphosphere, phyllosphere, rhizosphere and endosphere are critical interfaces for the exchange of signaling and resources between plants and soil environment. This book is an ideal reference source for microbiologists, agrochemists, biotechnologists, biochemists, industrialists, researchers and scientists working on agriculturally important microorganisms and their exploitation in sustainable future applications. Gives insights into mechanisms of plant-microbe interaction Introduces new aspects and advances in plant-microbe interaction for disease management Includes descriptions and modern practices on how to harness the potential of microbes in sustainable agriculture applications

Cisgenics and Transgenics Dec 11 2020 This book presents up-to-date information on various vector-less/direct (physical, chemical) and vector-mediated/indirect (Agrobacterium-mediated) plant transformation techniques. It summarizes various strategies that facilitate a gene from lower organism to be expressed in higher plants and also in silico designing of synthetic gene for higher expression. It also highlights the importance of strong promoters to drive the expression of transgene(s). This book encompasses the advantages and drawbacks of cisgenesis and transgenesis, their implications towards sustainable crop improvement, and their future prospects. The importance, limitations, challenges, recent developments, and future prospects of molecular pharming is also discussed. The book concludes with a chapter that summarizes the major contribution of GM-crops towards global food security and economy, advances in genome editing for crop improvement, challenges and risk associated with the release of GM-crops, and the future of GM technology. This book is meant for students and researchers in the field of life sciences, food science, and agriculture. .

Peptide, Protein and Enzyme Design Oct 09 2020 *De Novo Enzyme Design*, the newest volume in the *Methods in Enzymology* series, continues the legacy of this premier serial with quality chapters authored by leaders in the field. This volume includes the design of metal binding maquettes, insertion of non-natural cofactors, Cu metallopeptides, non-covalent interactions in peptide assemblies, peptide binding and bundling, heteronuclear metalloenzymes, fluorinated peptides, De Novo imaging agents, and protein-protein interaction. Continues the legacy of this premier serial with quality chapters on de novo enzyme design Represents the newest volume in the *Methods in Enzymology* series, providing premier, quality chapters authored by leaders in the field Ideal reference for those interested in the study of enzyme design that looks at both structure and mechanism

Rough Sets and Current Trends in Computing Aug 07 2020 In recent years rough set theory has attracted the attention of many researchers and practitioners all over the world, who have contributed essentially to its development and applications. We are observing a growing research interest in the foundations of rough sets, including the various logical, mathematical and philosophical aspects of rough sets. Some relationships have already been established between rough sets and other approaches, and also with a wide range of hybrid systems. As a result, rough sets are linked with decision system modeling and analysis of complex systems, fuzzy sets, neural networks, evolutionary computing, data mining and knowledge discovery, pattern recognition, machine learning, and approximate reasoning. In particular, rough sets are used in probabilistic reasoning, granular computing (including information granule calculi based on rough mereology), intelligent control, intelligent agent modeling, identification of autonomous systems, and process specification. Methods based on rough set theory alone or in combination with other approaches have been discovered with a wide range of applications in such areas as: acoustics, bioinformatics, business and finance, chemistry, computer engineering (e.g., data compression, digital image processing, digital signal processing, parallel and distributed computer systems, sensor fusion, fractal engineering), design analysis and systems, economics, electrical engineering (e.g., control, signal analysis, power systems), environmental studies, informatics, medicine, molecular biology, musicology, neurology, robotics, social science, software engineering, spatial visualization, Web engineering, and Web mining.

Cumulated Index Medicus Aug 31 2022

Logic and Its Applications Mar 14 2021 Edited in collaboration with FoLLI, the Association of Logic, Language and Information, this book constitutes the refereed proceedings of the 4th Indian Conference on Logic and Its Applications, ICLA 2011, held in Delhi, India, in January 2011. The 14 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 34 submissions. The papers present current research in all aspects of formal logic ranging from pure and applied logic to history of logic.

Machine Intelligence and Data Science Applications Jan 24 2022 This book is a compilation of peer reviewed papers presented at International Conference on Machine Intelligence and Data Science Applications (MIDAS 2021), held in Comilla University, Cumilla, Bangladesh during 26 – 27 December 2021. The book covers applications in various fields like image processing, natural language processing, computer vision, sentiment analysis, speech and gesture analysis, etc. It also includes interdisciplinary applications like legal, healthcare, smart society, cyber physical system and smart agriculture, etc. The book is a good reference for computer science engineers, lecturers/researchers in machine intelligence discipline and engineering graduates.

Arrow May 28 2022 Contemplative poems write a contentious love letter to a flawed world. "In poems that focus on gender and race-based violence, environmental destruction, and grief, Chakraborty investigates the unknown, unexpected, and unexplained." —Publishers Weekly "About a quarter of the way through Sumita Chakraborty's *Arrow*, the reader encounters an impossible poem called 'Dear, beloved.' It's impossible because who could write it? It's as large, in its way, as any epic, but as compressed as any lyric, and as beautiful as any lyric, but as foundational as any epic, but it seems to come after all things, though it seems, also, diurnal. And it's impossible also because it's a highlight, not the highlight, of *Arrow*, a debut as assured as any first or last book, as compelling as any, as well-made." —Shane A. McCrae "I stand in awe of Sumita Chakraborty's visionary collection, by turns epic and compressed in scope, weighty in its tapestry-like materiality and sleekly dynamic as an arrow. The mythic and literary, here, are invigorated by seeming autobiography, which in turn gains collective energy and heft from the poems' timeless tropes and themes. Seamless and diverse in form, cosmic in subject and image, one feels in the presence of an oracular intelligence and an abiding lyric imagination." —Diane Seuss "This powerful and endlessly mysterious collection of poems is a book of fables, of spells, of revised narratives, and of realigned songs, brightly lifted above our bodies by music that is as unpredictable as it is marvelous. The lyricism is everywhere apparent as Sumita Chakraborty addresses us, our bodies and their stories, our planet, and our sense of time itself. How does she do it? Mad Ireland hurt him into poetry, W. H. Auden wrote about Yeats, and as the hurt enters Chakraborty's language, we see that in speech violated, sounds and meanings—and even the oldest of human mysteries, like 'the etymology of love'—are redefined. All one can do is repeat: this is an endlessly compelling book. Bravo." —Ilya Kaminsky

AKASHVANI Apr 02 2020 "Akashvani" (English) is a programme journal of ALL INDIA RADIO, it was formerly known as The Indian Listener. It used to serve the listener as a bradshaw of broadcasting, and give listener the useful information in an interesting manner about programmes, who writes them, take part in them and produce them along with photographs of performing artists. It also contains the information of major changes in the policy and service of the organisation. The Indian Listener (fortnightly programme journal of AIR in English) published by The Indian State Broadcasting Service, Bombay, started on 22 December, 1935 and was the successor to the Indian Radio Times in English, which was published beginning in July 16 of 1927. From 22 August, 1937 onwards, it used to be published by All India Radio, New Delhi. From 1950, it was turned into a weekly journal. Later, The Indian listener became "Akashvani" (English) w.e.f. January 5, 1958. It was made fortnightly journal again w.e.f. July 1, 1983.

NAME OF THE JOURNAL: AKASHVANI LANGUAGE OF THE JOURNAL: English DATE, MONTH & YEAR OF PUBLICATION: 05 NOVEMBER, 1967 PERIODICITY OF THE JOURNAL: Weekly NUMBER OF PAGES: 86 VOLUME NUMBER: Vol. XXXII, No.45 BROADCAST PROGRAMME SCHEDULE PUBLISHED (PAGE NOS): 18-85 ARTICLE: 1. The State of Education : Teaching And Research 2. Science And Culture 3. Space Between The Ears AUTHOR: 1. Dr. A.M. Khusro 2. Rev. Fr. Dr. G. Casimir 3. K. G. Saiyidain KEYWORDS : 1. Worse All Round, Television, Wrong Values, Initiative At A Discount, Examination System. 2. What Is Culture, Crucial Question, The Scientific Revolution, Mutual Familiarity Essential. 3. A Challenge, A High Shame For Men, New System Needed Document ID : APE-1967(Oct-Dec)Vol-IV-06 Prasar Bharati Archives has the copyright in all matters published in this "AKASHVANI" and other AIR journals. For reproduction previous permission is essential.

9:15 (PM) Oct 21 2021 Set in the IT hub of India, Bangalore, this story is about the love mesh in which three individuals, Debolina, Niloy and Arjun, get trapped in. The story explains the derangement that occurs in each of their lives and the struggle each one faces to get out of this labyrinth. It leaves us with a beautiful message at the end about what love in reality is and what kind of indelible mark it leaves on us.

Geospatial Analysis of Environmental Health Aug 26 2019 This book focuses on a range of geospatial applications for environmental health research, including environmental justice issues, environmental health disparities, air and water contamination, and infectious diseases. Environmental health research is at an exciting point in its use of geotechnologies, and many researchers are working on innovative approaches. This book is a timely scholarly contribution in updating the key concepts and applications of using GIS and other geospatial methods for environmental health research. Each chapter contains original research which utilizes a geotechnical tool (Geographic Information Systems (GIS), remote sensing, GPS, etc.) to address an environmental health problem. The book is divided into three sections organized around the following themes: issues in GIS and environmental health research; using GIS to assess environmental health impacts; and geospatial methods for environmental health. Representing diverse case studies and geospatial methods, the book is likely to be of interest to researchers, practitioners and students across the geographic and environmental health sciences. The authors are leading researchers and practitioners in the field of GIS and environmental health.

Index Medicus Oct 28 2019

Crystal Archives of Magmatic Processes Nov 21 2021

Sutradhar May 16 2021 *Sutradhar* is a dramatized retelling of events, myths and legends set across the arc of Indian history. In order to be relevant to the current social climate of India and the World, the stories are written from an authentic, firmly rooted Indic perspective, exploring a wide range of worldviews, sociological schemas and philosophical approaches within the context of the narratives. The seven tales that form this collection span multiple genres, from historical fantasy to cosmic horror, and are often tinged with dark, absurdist undertones. Reviews: "Our stories are the key to the continuity of Indic civilization. By continuously retelling and reinterpreting them for a new generation, we have kept alive this civilization. In this book, Ratul takes forward this important tradition - indeed, he is now part of that chain of Sutradhars." - Sanjeev Sanyal, Bestselling writer & internationally acclaimed economist "A rich tapestry of katha, rasa and niti woven on an intricate world built by the author's deep understanding of Indic philosophy and literature. *Sutradhar* makes for a complete reading experience that combines the author's poetical rhythmic style with a delightful story that keeps the pages turning. Ratul has opened a window to a new dimension of Indic fantasy." - Saiswaroopa Iyer, Author "Mesmerizing prose! Stories told and untold came alive in all their splendour and vividness." - Abhinav Agarwal, Author – *Predators and Prey*, Curator of Indic Book Club "Set at different times in India's vast history, *Sutradhar* is a collection of brilliant short stories that are essentially about her people, their beliefs and disbeliefs, their desires and disappointments, their journeys through life. Ratul is an extremely gifted storyteller." - Bhavesh Kansara, Author - *Twisted Threads*

Genetics of Acquired Antimicrobial Resistance in Animal and Zoonotic Pathogens Sep 19 2021 Development and spread of antimicrobial resistance is the result of an evolutionary process by which microorganisms adapt to antibiotics through several mechanisms including alteration of drug target by mutation and horizontal transfer of resistance genes. The concomitant occurrence of independent antimicrobial resistance mechanisms is a serious threat to human health and has appeared in several emerging epidemic clones over the past decade in humans and also in animals. The increasing prevalence of antimicrobial drug resistance among animal and zoonotic foodborne pathogens is of particular concern for public health. In this Ebook, we gathered a collection of articles which deal with the most important aspects of the genetics of acquired antimicrobial resistance extending from medically-important resistance, emerging epidemic resistant clones, main mobile genetic elements spreading resistance, resistomes, dissemination between animals and humans, to the "One Health" concept.

Reticulate Evolution and Humans Feb 22 2022 This book describes the important role that the transfer of genes between organisms has played during the origin and evolution of humans, and the evolution of organisms on which the human species depends for shelter, sustenance and companionship.

The Kingdom of Copper Dec 23 2021 S. A. Chakraborty continues the sweeping adventure begun in *The City of*

Brass—"the best adult fantasy I've read since *The Name of the Wind*" (#1 New York Times bestselling author Sabaa Tahir)—conjuring a world where djinn summon flames with the snap of a finger and waters run deep with old magic; where blood can be dangerous as any spell, and a clever con artist from Cairo will alter the fate of a kingdom. Nahri's life changed forever the moment she accidentally summoned Dara, a formidable, mysterious djinn, during one of her schemes. Whisked from her home in Cairo, she was thrust into the dazzling royal court of Daevabad—and quickly discovered she would need all her grifter instincts to survive there. Now, with Daevabad entrenched in the dark aftermath of a devastating battle, Nahri must forge a new path for herself. But even as she embraces her heritage and the power it holds, she knows she's been trapped in a gilded cage, watched by a king who rules from the throne that once belonged to her family—and one misstep will doom her tribe. Meanwhile, Ali has been exiled for daring to defy his father. Hunted by assassins, adrift on the unforgiving copper sands of his ancestral land, he is forced to rely on the frightening abilities the marid—the unpredictable water spirits—have gifted him. But in doing so, he threatens to unearth a terrible secret his family has long kept buried. And as a new century approaches and the djinn gather within Daevabad's towering brass walls for celebrations, a threat brews unseen in the desolate north. It's a force that would bring a storm of fire straight to the city's gates . . . and one that seeks the aid of a warrior trapped between worlds, torn between a violent duty he can never escape and a peace he fears he will never deserve.

International Public Health Dec 31 2019 Public Health

Rare Disorders that Cause Dysphagia Jun 16 2021 *Rare Disorders That Cause Dysphagia: A Guide for Speech-Language Pathologists* is a resource manual to help medical speech-language pathologists identify the rare disorders that cause dysphagia and offer practical, therapeutic approaches to treatment. Most medical speech-language pathologists are acquainted with common etiologies of dysphagia, such as strokes, head injury, brain tumors, etc. However, there are less common disorders and syndromes that contribute to dysphagia that are not included in most textbooks and reference guides. Consequently, many clinicians who specialize in swallowing disorders are unaware of the impact that most uncommon diseases can have on swallowing. Clearly organized, each chapter is divided into six sections: Definition, History, Etiology, Epidemiology, Clinical Presentation, and Management of Dysphagia. Each chapter begins with a list of key terms that are bolded throughout the text and included in a glossary.

Confronting the Challenge of Reproductive Health in Africa Jun 04 2020 *Confronting the Challenge of Reproductive Health in Africa* is an indispensable resource for anyone delving into the field of sexual and reproductive health and rights, either as a student, practitioner or policymaker. The compilation of chapters provides contemporary and detailed information about the context, principles and practice of reproductive health in Africa from multidisciplinary and multi-sectorial perspectives, as well as evidence for designing cost-effective interventions. Written in a simple free flowing prose by experienced international scholars, and organized in an orderly manner, the book will fill an important gap in health promotion for development in Africa.

Listeria monocytogenes: Pathogenesis and Host Response Aug 19 2021 During the past twenty years *Listeria monocytogenes* has emerged as one of the most intensely studied bacterial pathogens. New windows are constantly being opened into the complexity of host cell biology and the interplay of the signals connecting the various cells and organs involved in the host response. This volume includes research from studies at the molecular level on the pathogenesis of *Listeria monocytogenes* and the response of the host to its infections.