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Algorithmic Number Theory

A compendium of over 5,000 problems with subject, keyword, author and citation indexes. This book constitutes the refereed proceedings of the 4th International Algorithmic Number Theory Symposium, ANTS-IV, held in Leiden, The Netherlands, in July 2000. The book presents 36 contributed papers which have gone through a thorough round of reviewing, selection and revision. Also included are 4 invited survey papers. Among the topics addressed are gcd algorithms, primality, factoring, sieve methods, cryptography, linear algebra, lattices, algebraic number fields, class groups and fields, elliptic curves, polynomials, function fields, and power sums. This book highlights the recent advances in the field of microbial engineering and its

application in human healthcare. It underscores the systemic and synthetic biology approaches for engineering microbes and discusses novel treatments for inflammatory bowel diseases based on engineered probiotics. The book also reviews the different options and methods for engineering microbes, ranging from recombinant DNA technology to designing microbes for targeting specific sites and delivering therapeutics. Further, it discusses genetically engineered microorganisms for smart diagnostics and describes current approaches in microbial gene editing using CRISPR-Cas9-based tools. Lastly, it summarizes the potential applications of human microbiome engineering in improving human health and explores potential strategies for scaling-up the production of engineered microbial strains for commercial purposes, as well as the challenges. Given its scope, this book is a valuable resource for students, researchers, academics and

entrepreneurs interested in understanding microbial engineering for the production of commercial products. Presenting the proceedings of FPCP 2018, this book reviews the status quo of flavor physics and discusses the latest findings in this exciting area. Flavor physics has been instrumental in the formulation and understanding of the standard model, and it is possible that the direction of new physics will be significantly influenced by flavor sector, also known as the intensity frontier, making it possible to indirectly test the existence of new physics up to a very high scale, beyond that of the energy frontier scale accessible at the LHC. The book is intended for academics around the globe involved in particle physics research, professionals associated with the related technologies and those who are interested in learning about the future of physics and its prospects and directions. With CRISPR/Cas gene editing tools in hand, we are currently experiencing a

new dimension in genetic engineering. But where should the journey lead? Should we treat diseases or better repair them genetically? Will the new genetic engineering, combined with modern reproductive biology, lead to designer babies? And: May we allow a liberalization of these techniques as citizen science? New methods can precisely alter the genetic material - and they leave no traces. This gene and genome surgery thrives on increasing knowledge about the mode of action of genes, those trait-giving regions in the genome. This knowledge is being applied in practice, particularly in the breeding of more resistant and higher-yielding crops. And what about us? The author shows that gene variants have long been associated not only with diseases, but also with nutritional preferences or intelligence. Therapeutic and optimization options are close at hand. What effect does the environment have on the expression of genetic material? Genes can be shaped during a

person's lifetime by the environment, nutrition or experiences and thus passed on to their offspring in a modified form. So, does society have a new form of long-term responsibility for (epi)genetic integrity? In this vividly and comprehensibly written book, the author explains the state of genetic engineering without assuming too much prior knowledge and invites an open dialogue on this ambivalent topic. Get your own idea of the fascinating yet intimidating possibilities of genetic engineering. Where do you stand on the issue? With the help of this book, you have the chance to form a differentiated opinion. This book is a translation of the original German 1st edition Generation Gen-Schere by Röbbel Wünschiers, published by Springer Fachmedien Wiesbaden GmbH, part of Springer Nature in 2019. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). The text was subsequently revised by

the author. Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors. The Pacific Symposium on Biocomputing (PSB) 2019 is an international, multidisciplinary conference for the presentation and discussion of current research in the theory and application of computational methods in problems of biological significance. Presentations are rigorously peer reviewed and are published in an archival proceedings volume. PSB 2019 will be held on January 3 - 7, 2019 in Kohala Coast, Hawaii. Tutorials and workshops will be offered prior to the start of the conference. PSB 2019 will bring together top researchers from the US, the Asian Pacific nations, and around the world to exchange research results and address open issues in all aspects of computational biology. It is a forum for the presentation of work in databases, algorithms, interfaces, visualization,

modeling, and other computational methods, as applied to biological problems, with emphasis on applications in data-rich areas of molecular biology. The PSB has been designed to be responsive to the need for critical mass in sub-disciplines within biocomputing. For that reason, it is the only meeting whose sessions are defined dynamically each year in response to specific proposals. PSB sessions are organized by leaders of research in biocomputing's 'hot topics.' In this way, the meeting provides an early forum for serious examination of emerging methods and approaches in this rapidly changing field. "Names of soldiers who died in defense of the American union, interred in the national and public cemeteries" (varies). This book discusses the role of the microbiome in rheumatic diseases and details its implications for patient treatment. Recently, with technological advances, there has been significant research into the microbiome. This has

enabled us to more profoundly understand its role in our immune system maturation as well as the role played by microorganisms in autoimmunity and the deeply related rheumatic diseases. This book comprehensively explains the emerging microbiome research through the interrelationships of biomedical sciences, including: immunology, microbiology, bioinformatics, and, with special emphasis, the clinical aspect of rheumatology. It examines the interplay between infectious organisms and major autoimmune diseases, including rheumatoid arthritis, psoriatic arthritis, juvenile arthritis, systemic lupus erythematosus, and vasculitis, and explains how to apply that knowledge to diagnostic techniques and treatment decisions. The international team of expert authors provides insight into current therapies and future interventions specifically targeting the microbiota and explores the impact of our deeper understanding on

enhancing personalized medicine. The Microbiome in Rheumatic Diseases and Infection is an essential resource for rheumatologists, pediatricians, internists, microbiologists, and critical care providers caring for children and adults with rheumatic diseases. Pediatric Reference Intervals, Eighth Edition, is a must-have for clinical chemists, hematologists, pathologists, endocrinologists and pediatricians. This trusted source enhances interpretation of patient results, allows comparison of test results using different methods, and helps optimize patient care. This updated edition is a valuable reference, providing instant and accurate reference intervals for over 250 chemistry and hematology analytes in an alphabetized, user-friendly format. Changes to this edition include Age- and Sex-Related Reference Ranges, Methodologies, Type of Specimen, References, Statistical Basis and Population Sources. Provides the

reference intervals for a wide variety of analytes for children, from neonates to adolescents to young adults Enhances interpretation of patient results, allows comparison of text results using different methods, and helps optimize patient care Trusted, vetted source that's been in the market for decades This book ventures into a new and exciting area of discovery that directly ties our current knowledge of cancer to the discovery of microorganisms associated with different types of cancers. Recent studies demonstrate that microorganisms are directly linked to the establishment of cancers and that they can also contribute to the initiation, as well as persistence of, the cancers. Microbiome and Cancer covers the current knowledge of microbiome and its association with human cancers. It provides important reading for novices, senior undergraduates in cancer and microbiology, graduate students, junior investigators, residents, fellows and

established investigators in the fields of cancer and microbiology. We cover areas related to known, broad concepts in microbiology and how they can relate to the ongoing discoveries of the micro-environment and the changes in the metabolic and physiologic states in that micro-environment, which are important for the ongoing nurturing and survival of the poly-microbial content that dictates activities in that micro-environment. We cover the interactions of microorganisms associated with gastric carcinomas, which are important for driving this particular cancer. Additional areas include oral cancers, skin cancers, ovarian cancers, breast cancers, nasopharyngeal cancers, lung cancers, mesotheliomas, Hodgkin's and non-Hodgkin's lymphomas, glioblastoma multiforme, hepatocellular carcinomas, as well as the inflammatory response related to the infectious agents in cancers. This book covers the metabolic changes that occur

because of infection and their support for development of cancers, chronic infection and development of therapeutic strategies for detection and control of the infection. The field of microbiome research has exploded over the last five years, and we are now understanding more and more about the context in which microorganisms can contribute to the onset of cancers in humans. The field of microbiome research has demonstrated that the human body has specific biomes for tissues and that changes in these biomes at the specific organ sites can result in disease. These changes can result in dramatic differences in metabolic shifts that, together with genetic mutations, will produce the perfect niche for establishment of the particular infection programmes in that organ site. We are just beginning to understand what those changes are and how they influence the disease state. Overall, we hope to bring together the varying degrees of

fluctuations in the microbiome at the major organ sites and how these changes affect the normal cellular processes because of dysregulation, leading to proliferation of the associated tissues. Final issue of each volume includes table of cases reported in the volume. The CBT-I Program That Gets You Sleeping! Now in its second edition, Sink Into Sleep provides the tools and techniques to reverse insomnia and improve sleep long-term. Insomnia, persistent trouble getting to sleep or staying asleep, affects our daytime functioning and wellbeing. This book breaks down the principles of cognitive behavioral therapy for insomnia (CBT-I), the sleep program considered first-line treatment in the clinic, into a step-by-step and reader friendly program that can be easily followed at home. Written by a clinical psychologist and researcher who has worked in the sleep field for 40 years, the book uses data from a real patient to illustrate each step of the

process. The book is complete with detailed sleep diaries, worksheets, and more, all of which are also available online to download and use on your own journey to sleeping better now and into the future. Guiding readers through this self-directed sleep therapy program, Sink Into Sleep features updated information and new scientific findings on key topics for patients and health care providers including: Tried-and-true CBT-I methods of sleep management Successful cognitive therapy methods to deal with racing thoughts at bedtime Different sleep needs for women and men through life and health conditions Influence of nutrition, exercise, and sex on sleep in a brand-new chapter Depression, anxiety, and traumatic stress and how they intersect with sleep Prescribed and non-prescribed medications, herbal remedies, and cannabis for sleep

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