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Access Free Strogatz Solutions Haldom Strogatz book exercise solutions - ResearchGate Steven Henry Strogatz (/ˈstroʊˈæts/; born August 13, 1959) is an American mathematician and the Jacob Gould Schurman Professor of Applied Mathematics at Cornell University. He is known for his work on nonlinear systems, including contributions to the

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Geographies of Plague Pandemics

synthesizes our current understanding of the spatial and temporal dynamics of plague, Yersinia pestis. The environmental, political, economic, and social impacts of the plague from Ancient Greece to the modern day are examined. Chapters explore the identity of plague DNA, its human mortality, and the source of ancient and modern plagues. This book also discusses the role plague has played in shifting power from Mediterranean Europe to north-western Europe during the 500 years that plague has raged across the continent. The book demonstrates how recent colonial structures influenced the spread and mortality of plague while changing colonial histories. In addition, this book provides critical insight into how plague has shaped modern medicine, public health, and disease monitoring, and what role, if any, it might play as a terror weapon. The scope and breadth of Geographies of Plague Pandemics offers geographers, historians, biologists, and public health educators the opportunity to explore the deep connections among disease and human existence.

This book presents a unique selection of fully reviewed, extended papers originally presented at the Social Simulation Conference 2014 in Barcelona, Spain. Only papers on the simulation of historical processes have been selected, the aim being to present theories and methods of computer simulation that can be relevant to understanding the past. Applications range from the Paleolithic and the origins of social life up to the Roman Empire and Early Modern societies. Case studies from Europe, America, Africa and Asia have been selected for publication. The extensive introduction offers a thorough review of the computer simulation of social dynamics in past societies as a means of understanding human history. This book will be of great interest to researchers in the social sciences, archaeology, evolutionary anthropology, and social history.

Sleep Disorders Medicine: Basic Science, Technical Considerations, and Clinical Aspects

presents the scientific basis for understanding sleep. This book provides information on the diagnosis and treatment of a wide variety of sleep disorders. Organized into 28 chapters, this book begins with an overview of the cerebral activity of wakefulness and the cerebral activity of sleep. This text then discusses the effects on mental and physical health of non-rapid eye movement (NREM) sleep, rapid eye movement (REM) sleep, and all sleep. Other chapters consider the neurophysiology and cellular pharmacology of sleep mechanisms. This book discusses as well the physiologic changes that occur in both the autonomic and somatic nervous system during sleep. The final chapter deals with the application of nasal continuous positive airway pressure for the treatment of obstructive apnea in adults. This book is a valuable resource for neurologists, internists, psychiatrists, pediatricians, otolaryngologists, neurosurgeons, psychologists, neuroscientists, and general practitioners.

A top neurologist explains the difficulty of diagnosing brain diseases through such cases as a college quarterback who keeps calling the same play and a salesman who continuously drives around a traffic circle.

Maritime transport is one of the most ancient supports to human interactions across history and it still supports more than 90% of world trade volumes today. The changing connectivity of maritime networks is of crucial importance to port, transport, and economic development and planning. The way ports, terminals, but also cities, regions and countries, are connected with each other through maritime flows is not well-known and difficult to represent and measure, even for the transport actors themselves. There is a strong, urgent need for reviewing the relevant theories, concepts, methods, and sources that can be mobilized for the analysis of maritime networks. With contributions from reputable scholars from all over the world, this book investigates the analysis of maritime flows and networks from diverse disciplinary angles going across archaeology, history, geography, regional science, economics, mathematics, physics, and computer sciences. Based on a vast array of methods, such as Geographical Information Systems (GIS), spatial analysis, complex networks, modelling, and simulation, it addresses several crucial issues related with port hierarchy; route density; modal interdependency; network robustness and vulnerability; traffic concentration and seasonality; technological change and urban/regional economic development. This book examines new evidence about how socio-economic trends are reflected (but also influenced) by maritime flows and networks, and about the way this knowledge can support and enhance decision-making in relation to the development of ports, supply chains, and transport networks in general. This book is an ideal companion to anyone interested in the network analysis of transport systems and economic systems in general, as well as the effective ways to analyse large datasets to answer complex issues in transportation and socio-economic development.

Neurology for the Speech-Language Pathologist

presents the fundamentals in understanding the nervous system in the context of communication. The book takes into consideration the nervous anatomic systems, such as sensory pathways. The text first introduces the speech-language neurology, and then proceeds to discussing the organization and neural function of the nervous system. Next, the book relates the nervous anatomic systems to language, speech, and hearing. The text also covers clinical speech syndromes and disorders. The book will be most useful to speech pathologists and therapists. Neurologists and neurosurgeons will also greatly benefit from the text.

This book provides a comprehensive, integrated comparison of the complex modulatory action of dopamine, noradrenaline, and serotonin receptors in the cortex. The discussion assembles a range of opinions on how the monoamine systems affect cortical function. The complexity of these interactions is discussed in light of recent data showing the dramatic effect of disruption of these systems on memory formation and information processing in the cortex.

This book introduces readers to essential methods and applications in translational biomedical informatics, which include biomedical big data, cloud computing and algorithms for understanding omics data, imaging data, electronic health records and public health data. The storage, retrieval, mining and knowledge discovery of biomedical big data will be among the key challenges for future translational research. The paradigm for precision medicine and healthcare needs to integratively analyze not only the data at the same level – e.g. different omics data at the molecular level – but also data from different levels – the molecular, cellular, tissue, clinical and public health level. This book discusses the following major aspects: the structure of cross-level data; clinical patient information and its shareability; and standardization and privacy. It offers a valuable guide for all biologists, biomedical informaticians and clinicians with an interest in Precision Medicine Informatics.

Sleep Disorders II covers various aspects of sleep disorders. These include the different classification of sleep disorders, the genetic influences of sleep disorders, abnormality in the sleeping pattern, and the circadian rhythm sleep disorder. A sleep disorder is a medical disorder that affects the sleeping patterns of humans (and sometimes animals). The disruptions in sleep can be caused by different factors, such as teeth grinding, night terrors, and the like. The book also discusses different perspectives on insomnia and hypersomnia. According to the International Classification of Sleep Disorders, insomnia is a sleep that is low in quality or a difficulty in sleeping. On the other hand, hypersomnia is a sleeping disorder characterized by excessive daytime sleepiness (EDS) or prolonged nighttime sleep. The book discusses narcolepsy, a syndrome that is

characterized by excessive daytime sleepiness that is associated with cataplexy and other REM sleep phenomena. The different medicines for this disease are also discussed. People who are practicing neurology and internal medicine, especially those in pulmonary, cardiovascular, gastrointestinal, renal and endocrine specialties, will find this book valuable. \* A comprehensive resource for the study of sleep science, sleep medicine, and sleep disorders \* Fascinating noninvasive neuroimaging studies that demonstrate marked changes during different sleep states \* A state-of-the-art reference that summarizes the clinical features and management of many of the neurological manifestations of sleep disorders

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