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This book provides the most up-to-date information on hybrid solar cell and solar thermal collectors, which are commonly referred to as Photovoltaic/Thermal (PV/T) systems. PV/T systems convert solar radiation into thermal and electrical energy to produce electricity, utilize more of the solar spectrum, and save space by combining the two structures to cover lesser area than two systems separately. Research in this area is growing rapidly and is highlighted within this book. The most current methods and techniques available to aid in overall efficiency, reduce cost and improve modeling and system maintenance are all covered. In-depth chapters present the background and basic principles of the technology along with a detailed review of the most current literature. Moreover, the book details design criteria for PV/T systems including residential,

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commercial, and industrial applications. Provides an objective and decisive source for the supporters of green and renewable source of energy Discusses and evaluates state-of-the-art PV/T system designs Proposes and recommends potential designs for future research on this topic

This volume provides a comprehensive, state-of-the art review of the field of cell therapy. The volume begins with an overview of the breadth of the field and then turns to overviews of imaging technologies that can aid in both safety and efficacy evaluations. The book then turns to numerous contributions detailing the rapidly growing field of stem cell therapies. These sections cover our understanding of the natural roles of stem cells in biology and human disease and then touches on several of the more prominent areas where stem cells are moving rapidly into clinical evaluation including neurodegenerative diseases, muscular dystrophy, cardiac repair, and diabetes. The volume concludes with contributions from experts in oncology, ophthalmology, stem cells, 3-D printing, and biomaterials where the convergence of expertise is leading to unprecedented insights into how to minutely control the in vivo fate and function of transplanted and/or endogeneously mobilized cells. Finally, the book provides insights into the pivotal relationship between academic and industrial partnerships. This volume is designed to touch on the major areas where the field will make its greatest and most immediate clinical impacts. This text will provide a useful resource for physicians and researchers interested in the rapidly changing filed of cell therapy.

This text provides a comprehensive review and expertise on various interventional cancer pain procedures. The first part of the text addresses the lack of consistency seen in the literature regarding interventional treatment options for specific cancer pain syndromes. Initially, it discusses primary cancer and treatment-related cancer pain syndromes that physicians may encounter when managing

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cancer patients. The implementation of paradigms that can be used in treating specific groups of cancer such as breast cancer, follows. The remainder of the text delves into a more common approach to addressing interventional cancer pain medicine. After discussing interventional options that are commonly employed by physicians, the text investigates how surgeons may address some of the more severe pain syndromes, and covers the most important interventional available for our patients, intrathecal drug delivery. Chapters also cover radiologic options in targeted neurolysis and ablative techniques, specifically for bone metastasis, rehabilitation to address patients' quality of life and function, and integrative and psychological therapies. Essentials of Interventional Cancer Pain Management globally assesses and addresses patients' needs throughout the cancer journey. Written by experts in the field, and packed with copious tables, figures, and flow charts, this book is a must-have for pain physicians, residents, and fellows.

This book provides an introduction to growth modeling in mixed forests, with emphasis on the tropics. It is not intended as a 'how-to' manual with step-by-step instructions, as there is no single best way to model such forests. Rather it reviews different approaches, highlighting their strengths and limitations. It emphasizes empirical-statistical models rather than physiological-process type models, because of the proven utility of the former in forest management. Each chapter includes exercises that can be completed manually or on PC and spreadsheet. The book will serve as a reference manual for practitioners and as a text for advanced level students taking courses in forest modeling.

Understanding and implementing the brain's computational paradigm is the one true grand challenge facing computer researchers. Not only are the brain's computational capabilities far beyond those of conventional computers, its energy efficiency is truly remarkable. This book, written from the perspective of a

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computer designer and targeted at computer researchers, is intended to give both background and lay out a course of action for studying the brain's computational paradigm. It contains a mix of concepts and ideas drawn from computational neuroscience, combined with those of the author. As background, relevant biological features are described in terms of their computational and communication properties. The brain's neocortex is constructed of massively interconnected neurons that compute and communicate via voltage spikes, and a strong argument can be made that precise spike timing is an essential element of the paradigm. Drawing from the biological features, a mathematics-based computational paradigm is constructed. The key feature is spiking neurons that perform communication and processing in space-time, with emphasis on time. In these paradigms, time is used as a freely available resource for both communication and computation. Neuron models are first discussed in general, and one is chosen for detailed development. Using the model, single-neuron computation is first explored. Neuron inputs are encoded as spike patterns, and the neuron is trained to identify input pattern similarities. Individual neurons are building blocks for constructing larger ensembles, referred to as "columns". These columns are trained in an unsupervised manner and operate collectively to perform the basic cognitive function of pattern clustering. Similar input patterns are mapped to a much smaller set of similar output patterns, thereby dividing the input patterns into identifiable clusters. Larger cognitive systems are formed by combining columns into a hierarchical architecture. These higher level architectures are the subject of ongoing study, and progress to date is described in detail in later chapters. Simulation plays a major role in model development, and the simulation infrastructure developed by the author is described.

This text presents a comprehensive and state-of-the-art approach to stereotactic and functional neurosurgery. Overarching sections include achieving stereotactic precision, defining trajectories and

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targets, the biophysics of stereotactic therapies, diseases and targets, and the future of functional neurosurgery. Each section is designed to be inclusive of all relevant topics, serving as an unbiased resource to new clinicians in this field or established clinicians that are aiming to better understand complementary methods. Importantly, each section and the associated chapters can be used by basic and translational scientists as well as engineers and industry to better understand and deliver innovation to the field. Chapters within each section methodically analyze traditional and recently emerging concepts and techniques; address underlying principles with examples drawn from specific diseases and applications; and cover patient selection, target selection, available stereotactic methods, nuanced surgical methods, and clinical evidence across treatment options. Written by experts in each area, Stereotactic and Functional Neurosurgery is a definitive guide to the latest developments in stereotactic targeting, electrode implantation, surgical treatment of neurological and psychiatric disorders, the renaissance of stereotactic lesions, and the frontier of restorative neurosurgery for a variety of disorders that have no other therapeutic options.

Cold adaptation includes a complex range of structural and functional adaptations at the level of all cellular constituents, and these adaptations render cold-adapted organisms particularly useful for biotechnological applications. This book presents the most recent knowledge of (i) boundary conditions for microbial life in the cold, (ii) microbial diversity in various cold ecosystems, (iii) molecular cold adaptation mechanisms and (iv) the resulting biotechnological perspectives.

The book shows a very original organization addressing in a non traditional way, but with a systematic approach, to who has an interest in using mathematics in the social sciences. The book is divided in four parts: (a) a historical part, written by Vittorio

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Capecchi which helps us understand the changes in the relationship between mathematics and sociology by analyzing the mathematical models of Paul F. Lazarsfeld, the model of simulation and artificial societies, models of artificial neural network and considering all the changes in scientific paradigms considered; (b) a part coordinated by Pier Luigi Contucci on mathematical models that consider the relationship between the mathematical models that come from physics and linguistics to arrive at the study of society and those which are born within sociology and economics; (c) a part coordinated by Massimo Buscema analyzing models of artificial neural networks; (d) a part coordinated by Bruno D'Amore which considers the relationship between mathematics and art. The title of the book "Mathematics and Society" was chosen because the mathematical applications exposed in the book allow you to address two major issues: (a) the general theme of technological innovation and quality of life (among the essays are on display mathematical applications to the problems of combating pollution and crime, applications to mathematical problems of immigration, mathematical applications to the problems of medical diagnosis, etc.) (b) the general theme of technical innovation and creativity, for example the art and mathematics section which connects to the theme of creative cities. The book is very original because it is not addressed only to those who are passionate about mathematical applications in social science but also to those who, in different societies, are: (a) involved in technological innovation to improve the quality of life; (b) involved in the wider distribution of technological innovation in different areas of creativity (as in the project "Creative Cities Network" of UNESCO).

This is an objective analysis of the implementation of comparable worth in a city government (San Jose, California), in a state government (Minnesota), and in an entire country (Australia).

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Explaining comparable worth in terms of economic theory, Killingsworth presents original econometric estimates of the effects of comparable worth on female-male relative wages and employment for the three locations. He develops and estimates two competing models: a conventional model, which relates individual worker's wages to worker's characteristics; and a comparable worth model, which relates wages of job classifications to job characteristics. Killingsworth concludes that conventional remedies to discrimination are a more promising approach than comparable worth for eliminating labor market discrimination. ISBN 0-88099-086-4: \$22.95.

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