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Public Transit Planning and Operation Dec 22 2021 Addresses the Challenges Facing Public Transport Policy Makers and Operators Public Transit Planning and Operation: Modeling, Practice and Behavior, Second Edition offers new solutions for delivering both better services and greater efficiency, solutions which have been developed and tested by the author in over thirty years of research work with mass transit policy makers and operators all over the world. It bridges the worlds of practice and research and academia, provides an overview and a critique of currently used operational planning methods, and furnishes innovative practical techniques and modeling. Improve Service Performance and Successfully Manage the Costs of Operation This new edition

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brings in new material on timetabling and vehicle scheduling with different vehicle sizes, new methods of designing transit route networks, analysis of transit coordination and connectivity, behavioral aspects of passengers including when making transfers, and innovative methods related to automation and optimization which can be used in real time to significantly improve service reliability. Combines academic research with real-world project experience Focuses on issues encountered in practice Provides unique coverage of the field Public Transit Planning and Operation: Modeling, Practice and Behavior, Second Edition incorporates a series of themes and new ways of thinking about planning and operation. Bridging the gap between theory and application, this text outlines the factors affecting public-transport services, addresses common problems, and offers practical solutions for improvement.

The Evolution of Travel Time Information Systems Sep 18 2021

This book deals with the estimation of travel time in a very comprehensive and exhaustive way. Travel time information is and will continue to be one key indicator of the quality of service of a road network and a highly valued knowledge for drivers. Moreover, travel times are key inputs for comprehensive traffic management systems. All the above-mentioned aspects are covered in this book. The first chapters expound on the different types of travel time information that traffic management centers work with, their estimation, their utility and their dissemination. They also remark those aspects in which this information should be improved, especially considering future cooperative driving environments. Next, the book introduces and validates two new methodologies designed to improve current travel time information systems, which additionally have a high degree of applicability: since they use data from widely disseminated sources, they could be immediately implemented by many administrations without the need for large investments. Finally, travel times are addressed in the context of dynamic traffic

management systems. The evolution of these systems in parallel with technological and communication advancements is thoroughly discussed. Special attention is paid to data analytics and models, including data-driven approaches, aimed at understanding and predicting travel patterns in urban scenarios. Additionally, the role of dynamic origin-to-destination matrices in these schemes is analyzed in detail.

Operations Research Feb 09 2021 The book covers clear and crisp pedagogy in the field of decision making process, which pervades the activities of every business manager. Modest attempt has been made to discuss some of the commonly used quantitative techniques in a wide spectrum of decision-making situations. It presents the application of various techniques through a large number of examples and review illustrations. A number of problems from various examinations have also been incorporated. Simplicity in explaining complex phenomena and lucidity in style are the twin objectives of the authors' in organizing the chapters of the book so that students of Civil, Production, Mechanical, Electrical and Electronics Engineering, Commerce, Management, CA and ICWA can derive maximum benefit.

Encyclopedia of Transportation Sep 06 2020 Viewing transportation through the lens of current social, economic, and policy aspects, this four-volume reference work explores the topic of transportation across multiple disciplines within the social sciences and related areas, including geography, public policy, business, and economics. The book's articles, all written by experts in the field, seek to answer such questions as: What has been the legacy, not just economically but politically and socially as well, of President Eisenhower's modern interstate highway system in America? With that system and the infrastructure that supports it now in a state of decline and decay, what's the best path for the future at a time of enormous fiscal constraints?

Should California politicians plunge ahead with plans for a high

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speed rail that every expert says—despite the allure—will go largely unused and will never pay back the massive investment while at this very moment potholes go unfilled all across the state? What path is best for emerging countries to keep pace with dramatic economic growth for their part? What are the social and financial costs of gridlock in our cities? Features: Approximately 675 signed articles authored by prominent scholars are arranged in A-to-Z fashion and conclude with Further Readings and cross references. A Chronology helps readers put individual events into historical context; a Reader's Guide organizes entries by broad topical or thematic areas; a detailed index helps users quickly locate entries of most immediate interest; and a Resource Guide provides a list of journals, books, and associations and their websites. While articles were written to avoid jargon as much as possible, a Glossary provides quick definitions of technical terms. To ensure full, well-rounded coverage of the field, the General Editor with expertise in urban planning, public policy, and the environment worked alongside a Consulting Editor with a background in Civil Engineering. The index, Reader's Guide, and cross references combine for thorough search-and-browse capabilities in the electronic edition. Available in both print and electronic formats, Encyclopedia of Transportation is an ideal reference for libraries and those who want to explore the issues that surround transportation in the United States and around the world.

Robot Path Planning and Cooperation Jul 29 2022 This book presents extensive research on two main problems in robotics: the path planning problem and the multi-robot task allocation problem. It is the first book to provide a comprehensive solution for using these techniques in large-scale environments containing randomly scattered obstacles. The research conducted resulted in tangible results both in theory and in practice. For path planning, new algorithms for large-scale problems are devised and implemented and integrated into the Robot Operating System.

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(ROS). The book also discusses the parallelism advantage of cloud computing techniques to solve the path planning problem, and, for multi-robot task allocation, it addresses the task assignment problem and the multiple traveling salesman problem for mobile robots applications. In addition, four new algorithms have been devised to investigate the cooperation issues with extensive simulations and comparative performance evaluation. The algorithms are implemented and simulated in MATLAB and Webots.

Grouping Genetic Algorithms Jul 17 2021 This book presents advances and innovations in grouping genetic algorithms, enriched with new and unique heuristic optimization techniques. These algorithms are specially designed for solving industrial grouping problems where system entities are to be partitioned or clustered into efficient groups according to a set of guiding decision criteria. Examples of such problems are: vehicle routing problems, team formation problems, timetabling problems, assembly line balancing, group maintenance planning, modular design, and task assignment. A wide range of industrial grouping problems, drawn from diverse fields such as logistics, supply chain management, project management, manufacturing systems, engineering design and healthcare, are presented. Typical complex industrial grouping problems, with multiple decision criteria and constraints, are clearly described using illustrative diagrams and formulations. The problems are mapped into a common group structure that can conveniently be used as an input scheme to specific variants of grouping genetic algorithms. Unique heuristic grouping techniques are developed to handle grouping problems efficiently and effectively. Illustrative examples and computational results are presented in tables and graphs to demonstrate the efficiency and effectiveness of the algorithms. Researchers, decision analysts, software developers, and graduate students from various disciplines will find this in-depth reader-friendly exposition of advances and applications of

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grouping genetic algorithms an interesting, informative and valuable resource.

Soft Computing Mar 01 2020 Without mathematics no science would survive. This especially applies to the engineering sciences which highly depend on the applications of mathematics and mathematical tools such as optimization techniques, finite element methods, differential equations, fluid dynamics, mathematical modelling, and simulation. Neither optimization in engineering, nor the performance of safety-critical system and system security; nor high assurance software architecture and design would be possible without the development of mathematical applications. De Gruyter Series on the Applications of Mathematics in Engineering and Information Sciences (AMEIS) focusses on the latest applications of engineering and information technology that are possible only with the use of mathematical methods. By identifying the gaps in knowledge of engineering applications the AMEIS series fosters the international interchange between the sciences and keeps the reader informed about the latest developments.

College Physics Jun 03 2020

User-Centered Design Strategies for Massive Open Online Courses (MOOCs) Aug 18 2021 In today's society, educational opportunities have evolved beyond the traditional classroom setting. Most universities have implemented virtual learning environments in an effort to provide more opportunities for potential or current students seeking alternative and more affordable learning solutions. User-Centered Design Strategies for Massive Open Online Courses (MOOCs) focuses on the best practices and effective design of student interaction within virtual learning environments. Highlighting strategies from human-computer interaction experiences and user-centered models, as well as emergent approaches and implementation techniques, this reference publication is designed for computer science students, academics, researchers, instructional designers, IT professionals,

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software developers, and educators interested in mobile technologies, social learning, and educational inclusion.

Global Monitoring Report 2013 Jul 05 2020 The Global Monitoring Report 2013: Rural-Urban Dynamics and the Millennium Development Goals examines rural-urban disparities in the achievement of the Millennium Development Goals (MDGs) and how urbanization, if managed well, can contribute to the attainment of these goals. The report provides information about the differences in progress toward the MDGs across geographical areas and recognizes that urban populations are better off than their rural brethren. However, unfettered urbanization can cause migrants and the urban poor to end up in slums where attainment of the MDGs lags. GMR 2013 calls for an integrated strategy to better manage the planning-connecting-financing formula of urbanization. Notwithstanding the importance of urbanization in poverty reduction and MDG attainment, rural areas remain a huge challenge--one that underscores the importance of policies that can improve rural livelihoods. The rural-urban spectrum ranges from small towns to large cities. The general experience is that poverty is lowest in the largest cities and considerably higher in smaller towns. The MDGs reflect the basic needs of all citizens, and governments should aim to meet them fully in both urban and rural areas. However, resources are scarce, so priorities must be set and trade-offs made. The report argues that the sequencing of actions be tailored to local conditions when it comes to the degree of urbanization and rural-urban differences in MDG outcomes. The world has met four global MDG targets. New estimates confirm the 2012 reports that MDG 1.a--reducing the \$1.25-a-day poverty rate (2005 purchasing power parity)--was reached in 2010, falling below half of its 1990 value. The world also met part of MDG 7.c--to halve the proportion of people without safe access to drinking water--in 2010. MDG 7.d--to improve significantly the lives of at least 100 million slum dwellers by 2020--was also achieved. Finally, the first part of

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MDG 3.a--to eliminate gender disparity in primary education-- was accomplished in 2010. Global progress on the full MDG 3.a (to eliminate gender disparity in primary and secondary education) is close to being on track. Global Monitoring Report 2013 was prepared jointly by the World Bank and the International Monetary Fund, with consultations and collaborations with regional development banks and other multilateral partners.

Generalized Sylvester Equations Apr 25 2022 Provides One Unified Formula That Gives Solutions to Several Types of GSEs
Generalized Sylvester equations (GSEs) are applied in many fields, including applied mathematics, systems and control, and signal processing. *Generalized Sylvester Equations: Unified Parametric Solutions* presents a unified parametric approach for solving various types of GSEs. In an extremely neat and elegant matrix form, the book provides a single unified parametric solution formula for all the types of GSEs, which further reduces to a specific clear vector form when the parameter matrix F in the equations is a Jordan matrix. Particularly, when the parameter matrix F is diagonal, the reduced vector form becomes extremely simple. The first chapter introduces several types of GSEs and gives a brief overview of solutions to GSEs. The two subsequent chapters then show the importance of GSEs using four typical control design applications and discuss the F -coprimeness of a pair of polynomial matrices. The next several chapters deal with parametric solutions to GSEs. The final two chapters present analytical solutions to normal Sylvester equations (NSEs), including the well-known continuous- and discrete-time Lyapunov equations. An appendix provides the proofs of some theorems. The book can be used as a reference for graduate and senior undergraduate courses in applied mathematics and control systems analysis and design. It will also be useful to readers interested in research and applications based on Sylvester equations.

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Proceedings of the 2013 International Conference on Electrical and Information Technologies for Rail Transportation (EITRT2013)-Volume I Jun 15 2021 Proceedings of the 2013 International Conference on Electrical and Information Technologies for Rail Transportation (EITRT2013) collects the latest research in this field, including a wealth of state-of-the-art research theories and applications in intelligent computing, information processing, communication technology, automatic control, etc. The objective of the proceedings is to provide a major interdisciplinary forum for researchers, engineers, academics and industrial professionals to present the most innovative research on and developments in the field of rail transportation electrical and information technologies. Contributing authors from academia, industry and the government also offer inside views of new, interdisciplinary solutions. Limin Jia is a professor at Beijing Jiaotong University and Chief Scientist at the State Key Lab of Rail Traffic Control and Safety.

Bounded Rational Choice Behaviour Jan 29 2020 The book is an attempt to stimulate development in travel behaviour analysis and provide a basic source of reference to the transportation research community. The aim of the book is to give centre stage to some recent innovative approaches to models of bounded rationality, both under conditions of certainty and uncertainty.

Mathematics—Advances in Research and Application: 2013 Edition Nov 01 2022 Mathematics—Advances in Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built Mathematics—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable.

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authoritative, informed, and relevant. The content of Mathematics—Advances in Research and Application: 2013 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/>.

Engineering Optimization 2014 Nov 28 2019 Optimization methodologies are fundamental instruments to tackle the complexity of today's engineering processes. Engineering Optimization 2014 is dedicated to optimization methods in engineering, and contains the papers presented at the 4th International Conference on Engineering Optimization (ENGOPT2014, Lisbon, Portugal, 8-11 September 2014). The book will be of interest to engineers, applied mathematicians, and computer scientists working on research, development and practical applications of optimization methods in engineering.

Acta Chemica Scandinavica Oct 27 2019

Modelling Intelligent Multi-Modal Transit Systems Feb 21 2022

The growing mobility needs of travellers have led to the development of increasingly complex and integrated multi-modal transit networks. Hence, transport agencies and transit operators are now more urgently required to assist in the challenging task of effectively and efficiently planning, managing, and governing transit networks. A pre-condition for the development of an effective intelligent multi-modal transit system is the integration of information and communication technology (ICT) tools that will support the needs of transit operators and travellers. To achieve this, reliable real-time simulation and short-term forecasting of passenger demand and service network conditions are required to provide both real-time traveller information and successfully synchronise transit service planning and operations control.

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Modelling Intelligent Multi-Modal Transit Systems introduces the current trends in this newly emerging area. Recent developments in information technology and telematics have enabled a large amount of data to become available, thus further attracting transport researchers to set up new models outside the context of the traditional data-driven approach. The alternative demand-supply interaction or network assignment modelling approach has improved greatly in recent years and has a crucial role to play in this new context.

The Future of Economic Design Jul 25 2019 This collection of essays represents responses by over eighty scholars to an unusual request: give your high level assessment of the field of economic design, as broadly construed. Where do we come from? Where do we go from here? The book editors invited short, informal reflections expressing deeply felt but hard to demonstrate opinions, unsupported speculation, and controversial views of a kind one might not normally risk submitting for review. The contributors - both senior researchers who have shaped the field and promising, younger researchers - responded with a diverse collection of provocative pieces, including: retrospective assessments or surveys of the field; opinion papers; reflections on critical points for the development of the discipline; proposals for the immediate future; "science fiction"; and many more. The readers should have fun reading these unusual pieces - as much as the contributors enjoyed writing them.

ECEL2013- Proceedings for the 12th European Conference on eLearning Sep 30 2022

[The Assignment of Contractual Rights](#) Mar 13 2021 This book explains the existence, meaning and application of the rules governing the assignment of contractual rights. The second edition is updated and retains the structure of the first edition, focusing on what is meant by 'assignment', the distinction between legal and equitable assignments, how an assignable contractual right is identified, what formalities apply to

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assignment, and what rights and remedies are available to the parties to an assignment. In reviewing the first edition, The Hon JD Heydon said 'it is essential reading for ... teachers, especially those who teach contract, equity and personal property. Above all, it should always be consulted-read carefully, slowly and repeatedly-by any practitioner facing an assignment problem. ... It is not only the best book ever written on its subject, but among the best monographs dealing with legal doctrine published in recent years' (2008) 30 Sydney Law Review 169.

Innovative Solutions for Implementing Global Supply Chains in Emerging Markets Oct 20 2021 Advancements in the field of information technology have transformed the way businesses interact with each other and their customers. Businesses now require customized products and services to reflect their constantly changing environment, yet this results in cutting-edge products with relatively short lifecycles. Innovative Solutions for Implementing Global Supply Chains in Emerging Markets addresses the roles of knowledge management and information technology within emerging markets. This forward-thinking title explores the current trends in supply chain management, knowledge acquisition and transfer mechanisms among supply chain partners, and knowledge management paradigms. This book is an invaluable resource for researchers, business professionals and students, business analysts, and marketing professionals.

Operations Research Proceedings 2013 Aug 30 2022 This book contains a selection of refereed papers presented at the "International Conference on Operations Research (OR 2013)" which took place at Erasmus University Rotterdam September 3-6, 2013. The conference was jointly organized by the German and the Dutch OR Society. More than 800 scientists and students from over 50 countries attended OR 2013 and presented more than 600 papers in parallel topical streams, as well as special award sessions. The theme of the conference and its proceedings,

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is "Impact on People, Business and Society".

Computational Management Mar 25 2022 This book offers a timely review of cutting-edge applications of computational intelligence to business management and financial analysis. It covers a wide range of intelligent and optimization techniques, reporting in detail on their application to real-world problems relating to portfolio management and demand forecasting, decision making, knowledge acquisition, and supply chain scheduling and management.

Airline Network Planning and Scheduling Sep 26 2019 A concise resource to the best practices and problem-solving ideas for understanding the airline network planning and scheduling process Airline Network Planning and Scheduling offers a comprehensive resource that is filled with the industry's best practices that can help to inform decision-modeling and the problem-solving process. Written by two industry experts, the book is designed to be an accessible guide that contains information for addressing complex challenges, problems, and approaches that arise on the job. The chapters begin by addressing the complex topics at a broad, conceptual level before moving on to more detailed modeling in later chapters. This approach follows the standard airline planning process and reflects the duties of the day-to-day job of network/schedule planners. To help gain a practical understanding of the information presented, each chapter includes exercises and data based on real-world case studies. In addition, throughout the book there are graphs and illustrations as well as, information on the most recent advances in airline network and planning research. This important resource: Takes a practical approach when detailing airline network planning and scheduling practices as opposed to a theoretical perspective Puts the focus on the complexity and main challenges as well as current practices and approaches to problem-solving and decision-making Presents the information in a logical sequence that begins with broad

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conceptual topics and gradually delves into more advanced topics that address modeling Contains international standard airline planning processes, the day-to-day responsibilities of the job, and outlines the steps taken when building an airline network and schedule Includes numerous case studies, exercises, graphs, and illustrations throughout Written for professionals and academics, Airline Network Planning and Scheduling offers a resource for understanding best practices and models as well as the challenges involved with network planning and scheduling.

Modelling Public Transport Passenger Flows in the Era of Intelligent Transport Systems

Oct 08 2020 This book shows how transit assignment models can be used to describe and predict the patterns of network patronage in public transport systems. It provides a fundamental technical tool that can be employed in the process of designing, implementing and evaluating measures and/or policies to improve the current state of transport systems within given financial, technical and social constraints. The book offers a unique methodological contribution to the field of transit assignment because, moving beyond “traditional” models, it describes more evolved variants that can reproduce:

- intermodal networks with high- and low-frequency services;
- realistic behavioural hypotheses underpinning route choice;
- time dependency in frequency-based models; and
- assumptions about the knowledge that users have of network conditions that are consistent with the present and future level of information that intelligent transport systems (ITS) can provide.

The book also considers the practical perspective of practitioners and public transport operators who need to model and manage transit systems; for example, the role of ITS is explained with regard to their potential in data collection for modelling purposes and validation techniques, as well as with regard to the additional data on network patronage and passengers’ preferences that influences the network-management and control strategies implemented. In addition, it explains how the different aspects of,

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network operations can be incorporated in traditional models and identifies the advantages and disadvantages of doing so. Lastly, the book provides practical information on state-of-the-art implementations of the different models and the commercial packages that are currently available for transit modelling. Showcasing original work done under the aegis of the COST Action TU1004 (TransITS), the book provides a broad readership, ranging from Master and PhD students to researchers and from policy makers to practitioners, with a comprehensive tool for understanding transit assignment models.

Biology 2e Jan 23 2022

Microsoft Access 2013: Complete Jun 27 2022 Introduce your students to the latest that Microsoft Office has to offer with the new generation of Shelly Cashman Series books! For the past three decades, the Shelly Cashman Series has effectively introduced computer skills to millions of students. With MICROSOFT ACCESS 2013, we're continuing our history of innovation by enhancing our proven pedagogy to reflect the learning styles of today's students. In this text you'll find features that are specifically designed to engage students, improve retention, and prepare them for future success. Our trademark step-by-step, screen-by-screen approach now encourages students to expand their understanding of MICROSOFT ACCESS 2013 through experimentation, critical thought, and personalization. With these enhancements and more, the Shelly Cashman Series continues to deliver the most effective educational materials for you and your students. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Healthcare Systems Aug 25 2019 This book is centered around the development of agile, high-performing healthcare institutions that are well integrated into their environment. The aim is to take advantage of artificial intelligence, optimization and simulation methods to provide solutions to prevent, anticipate, monitor and

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follow public health developments in order to intervene at the right time, using tools and resources that are both appropriate and effective. The focus is on the people involved – the patients, as well as medical, technical and administrative staff – in an effort to provide an efficient healthcare and working environment that meets safety, quality and productivity requirements. Healthcare Systems has been written by healthcare professionals, researchers in science and technology as well as in the social sciences and humanities from various French-speaking countries. It explores the challenges and opportunities presented by digital technology in our practices, organizations and management techniques.

A New Construction of Ricardian Theory of International

Values Nov 08 2020 This is the first book published in English on the new international value theory, presented by Yoshinori Shiozawa in 2007. Shiozawa submitted a solution to the question on international values since Ricardo by constructing a Ricardo–Sraffa model on trading economies with M countries and N commodities including intermediate inputs (normally $M \times N$). The new theory is based on the assumption that prices are determined by production costs, which is the property derived from the classical value theory. The papers collected here deal with the following: introducing readers to the new theory; presenting diagrammatic illustrations of the new theory; analysing efficient patterns of specialization allowing intermediate inputs; examining how the new theory gives a new horizon to the Neo-Ricardian trade theory; investigating competitiveness, the long-period method, and potentiality from the perspectives of the new theory; discussing Mill's conversion toward neoclassical revolution; scrutinizing how the concept of comparative advantage has developed and diverged from Ricardo's trade theory; discussing the purification of Marshall's value theory through Mill's influence; reviewing the controversies on international values among Japanese economists; considering the value-added trade

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based on the Ricardian value theory; and lastly giving a mathematical explanation of the definitions and theorems of the new theory./pp

Membrane Proteins in Aqueous Solutions May 03 2020 This book is the first to be entirely devoted to the challenging art of handling membrane proteins out of their natural environment, a key process in biological and pharmaceutical research, but one plagued with difficulties and pitfalls. Written by one of the foremost experts in the field, *Membrane Proteins in Aqueous Solutions* is accessible to any member of a membrane biology laboratory. After presenting the structure, functions, dynamics, synthesis, natural environment and lipid interactions of membrane proteins, the author discusses the principles of extracting them with detergents, the mechanisms of detergent-induced destabilization, countermeasures, and recent progress in developing detergents with weaker denaturing properties. Non-conventional alternatives to detergents, including bicelles, nanodiscs, amphipathic peptides, fluorinated surfactants and amphipols, are described, and their relative advantages and drawbacks are compared. The synthesis and solution properties of the various types of amphipols are presented, as well as the formation and properties of membrane protein/amphipol complexes and the transfer of amphipol-trapped proteins to detergents, nanodiscs, lipidic mesophases, or living cells. The final chapters of the book deal with applications: membrane protein *in vitro* folding and cell-free expression, solution studies, NMR, crystallography, electron microscopy, mass spectrometry, amphipol-mediated immobilization of membrane proteins, and biomedical applications. Important features of the book include introductory sections describing foundations as well as the state-of-the-art for each of the biophysical techniques discussed, and topical tables which organize a widely dispersed literature. Boxes and annexes throughout the book explain technical aspects, and twelve detailed experimental protocols, ranging from *in vitro*

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folding of membrane proteins to single-particle electron cryomicroscopy, have been contributed by and commented on by experienced users. *Membrane Proteins in Aqueous Solutions* offers a concise, accessible introduction to membrane protein biochemistry and biophysics, as well as comprehensive coverage of the properties and uses of conventional and non-conventional surfactants. It will be useful both in basic and applied research laboratories and as a teaching aid for students, instructors, researchers, and professionals within the field.

California Workers' Compensation Law and Practice Jun 23 2019

This edition keeps you up-to-date with 2 revamped chapters, statutory and rule changes, and hundreds of new cases updating all 24 chapters. Revamped chapters: Chapter 8 Permanent Disability: has been updated and reorganized to present the material in a more logical way. Much of the text has been completely re-written to enhance clarity. The discussion of liens and related topics previously covered in various chapters has been revised and consolidated in Chapter 10 Liens and Medical-Legal Cost Petitions. Other new and updated material: Reforms Enacted in 2018 are summarized. §1:55 Fair Labor Standards Act: Plaintiff had valid FLSA cause of action when the plaintiff sued his employer in state court and employer's attorney planned for ICE to take him into custody at a deposition and deport him. §2:220 Exclusion for National Guard Service: Applicant was ineligible for workers' compensation benefits for psychiatric injury arising out of a sexual assault that occurred while training with the California Army National Guard. §2:59 Aggravation or Exacerbation: A second injury that causes no additional temporary or permanent disability is likely an exacerbation. §4:41 Peace Officer and Firefighter Cancer Presumption: Can defendant's failure to produce HARP documents create an adverse inference? §4:61 Anti-Attribution Clauses: Appeals Board barred defendant from rebutting industrial causation where applicant contracted a blood-borne pathogen from a prior surgical

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scar and diverticulitis. §4:62 MTUS: Applicant's right to challenge diagnosis or treatment with second and third opinions versus defendant's right to control treatment through utilization review. §9:60 Resubmission to UR and the 12-Month Rule: Are the worker and treating doctor bound by the 12-month rule where there has been a misunderstanding of the medical facts? §9:61.2 No Medical/Legal or Judicial Review of UR Denial: Court of Appeal cases reject arguments that the UR / IMR process is unconstitutional. §9:63 Failure to Pay TD: WCJ did not err in ordering defendant to pay 13 years of temporary disability plus penalties where defendant failed to petition for termination of temporary disability. §12:02 Safety Order Violations: Employer guilty of serious and willful misconduct for failing to utilize a "tag line" on a steel beam. §12:11 Supplemental Job Displacement Vouchers: Applicant was not entitled to a second LC §5814 penalty for delay in providing a supplemental job displacement voucher. §12:117 Officers/Owners as Employees: LC §3352(a)(16)(A) provides an exception from the definition of an employee for certain officers and members of the board of directors of quasi-public or private corporations. §13:245 Settlement of One Part of Body Does Not Preclude Claim to Another: Applicant's claim for cumulative injury to his brain during his professional football career was not barred by a Compromise and Release Agreement settling an earlier claim of cumulative injury to other body parts. §15:50 Withdrawal Requests before Reconsideration Deadline Has Passed: Board finds no mutual mistake when defendant listed the wrong date of death which affected the amount of the death benefit payable to applicant. §15:102 Setting Aside Stipulated Awards: Board returns several cases to trial level for further hearings on whether mistake was mutual or unilateral. Board finds no good cause to set aside stipulations for unilateral mistake. §15:135 Non-attorney Representatives: Lien for fees filed by a non-attorney representative lien claimant was precluded by LC

§4903(a), which does not allow fees for non-attorney representatives. §17:04 Attorney Sanctions: Sanctions for failure to appear (§17:22); inappropriate language and misrepresentations (§17:123), and failure to return the client's file (§17:131) Petition to Reduce Disability: Failure to file a timely petition to reduce permanent disability did not preclude WCJ from re-rating applicant's current level of disability with regard to petition to re-open for new and further disability. §18:116 IMR: Timeframes set forth in LC §4610.6(d) and ADR §9792.10.5(a)(1) with respect to the 45 days required for IMR to issue its decision are directory and not mandatory. §19:13 IMR: First District Court of Appeal affirms Board's decision denying the applicant's petition for the Board to order its IMR organization to disclose identities of first and second independent medical reviewers. Disqualification for Cause: Allegations of bias without sufficient detail will generally not support disqualification. §21:03 Permanent and Stationary Reports: One panel concludes that a final permanent and stationary report by the primary treating physician is not required so long as there has been an evaluation by a qualified medical evaluator addressing permanent disability. §21:06 Right to Testify: WCJ did not err in allowing applicant, who had been deported to Mexico, to testify at trial via a cell phone using the FaceTime application. §21:112 Record of Proceedings: In several cases, the Board reiterates the importance of creating a record including the identification of issues for determination to afford the parties due process. §21:190 Newly-Discovered Evidence: Board grants reconsideration based on newly discovered evidence finding that WCJ had determined the applicant's credibility based on a misleading drug testing report and the mistaken belief that the applicant was not taking his prescribed pain medications. §23:23

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