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DCI David Brock and DI Kathy Kolla, of Scotland Yard, find themselves pulled into a case of murder, a mysterious death among the houseboats that line the canals around greater London, in Barry Maitland's *The Raven's Eye*. DI Kathy Kolla of Scotland Yard is called in as a matter of course by the local Paddington police when a woman turns up dead in what appears to be an accident. On her houseboat, Vicky Hawks is found by one of her neighbors having apparently succumbed to carbon monoxide poisoning due to improper ventilation of the narrowboat's heating system. But while the cause of death seems apparent and there's no reason for Kolla to think otherwise, something about this death still bothers her. Meanwhile, her boss, DCI Brock, is wrestling with harsh budget cuts and a new Commander who is determined to make fundamental changes to the system—including limiting resources devoted to investigations. Struggling against the limitations imposed by the new order at Scotland Yard, Brock and Kolla find themselves pulling at the loose strings in the death of Vicky Hawks, trying to find out who she really was, what she was up to, and how her death might be related to another earlier tragic accidental death. Focusing on the most rapidly changing areas of mechatronics, this book discusses signals and system control, mechatronic products, metrology and nanometrology, automatic control & robotics, biomedical engineering, photonics, design manufacturing and testing of MEMS. It is reflected in the list of contributors, including an international group of 302 leading researchers representing 12 countries. The book is intended for use in academic, government and industry R&D departments, as an indispensable reference tool for the years to come. This volume can serve a global community as the definitive reference source in Mechatronics. The book comprises carefully selected 93 contributions presented at the 11th International Conference Mechatronics 2015, organized by Faculty of Mechatronics, Warsaw University of Technology, on September 21-23, in Warsaw, Poland. Stratospheric balloons are powerful tools used to study the Earth and its atmosphere, as well as the greater cosmos beyond. This book describes the science and technology behind modern stratospheric ballooning, along with the surprising ways it has impacted our daily lives. The book takes you through every step of the process, starting with an in-depth introduction to basic balloon types and their uses before delving into balloon construction and mission planning. Along the way, you will learn about the novel technologies that have radically changed these balloons and their ability to launch, control and navigate them over specific ground targets. Next follows an exploration of their incredible applications, including research in atmospheric science, cosmology and astronomy, earth studies, meteorology, and aerobiology, and also commercial capabilities such as Internet networks and high-altitude tourism. The community of scientists, engineers, and entrepreneurs involved in stratospheric ballooning is only ever growing. This book shows you how these national and international efforts have truly soared in recent years, and it will be an enjoyable read for anybody interested in learning more about how science and commerce are conducted in the stratosphere, at the edge of space. A contemporary account of the NER's locomotives covering the company's formative years from 1841 up to the re-grouping of 1923. Originally published over 90 years ago this new edition is fully illustrated with line drawings and photographs. Sustainability in agriculture and associated primary industries, which are both energy-intensive, is crucial for the development of any country. Increasing scarcity and resulting high fossil fuel prices combined with the need to significantly reduce greenhouse gas emissions, make the improvement of energy efficient farming and increased use of renewable Test Prep for Control Systems—GATE, PSUS AND ES Examination This report is part of a series of reports that summarize this regular event. The report discusses research developments in ship design, construction, and operation in a forum that encouraged both formal and informal discussion of presented papers. One of the most widely used reference books on applied mathematics for a generation, distributed in multiple languages throughout the world, this text is geared toward use with a one-year advanced course in applied mathematics for engineering students. The treatment assumes a solid background in the theory of complex variables and a familiarity with complex numbers, but it includes a brief review. Chapters are as self-contained as possible, offering instructors flexibility in designing their own courses. The first eight chapters explore the analysis of lumped parameter systems. Succeeding topics include distributed parameter systems and important areas of applied mathematics. Each chapter features extensive references for further study as well as challenging problem sets. Answers and hints to select problem sets are included in an Appendix. This edition includes a new Preface by Dr. Lawrence R. Harvill. Dover (2014) republication of the third edition originally published by McGraw-Hill, New York, 1970. See every Dover book in print at www.doverpublications.com Because actual control systems frequently contain nonlinear components, considerable emphasis is given to such components. The book goes on to show that important information concerning the basic or inherent operating characteristics of a system may be obtained from knowledge of the steady-state behavior. Since the first publication of this definitive work nearly 40 years ago, this fourth edition has been completely rewritten. Crystallization is used at some stage in nearly all process industries as a method of production, purification or recovery of solid materials. Incorporating all the recent developments and applications of crystallization technology, Crystallization gives clear accounts of the underlying principles, a review of the past and current research themes and guidelines for equipment and process design. This new edition introduces and enlarges upon such subjects as: Control and Separation of polymorphs and chiral crystals Micro- and macro-mixing and the use of computer fluid dynamics Seeding and secondary nucleation in batch crystallization processes Incorporation of upstream and downstream requirements into design procedures for crystallization plant Computer-aided molecular design and its use in crystal habit modifier selection Crystallization provides a comprehensive overview of the subject and will prove invaluable to all chemical engineers and industrial chemists in the process industries as well as crystallization workers and students in industry and academia. Crystallization is written with the precision and clarity of style that is John Mullin's hallmark - a special feature being the large number of appendices that provide relevant physical property data. Covers all new developments and trends in crystallization Comprehensive coverage of subject area As the biomedical engineering field expands throughout the world, clinical engineers play an evermore-important role as translators between the medical, engineering, and business professions. They influence procedure and policy at research facilities, universities, as well as private and government agencies including the Food and Drug Administration and the World Health Organization. The profession of clinical engineering continues to seek its place amidst the myriad of professionals that comprise the health care field. The Clinical Engineering Handbook meets a long felt need for a comprehensive book on all aspects of clinical engineering that is a suitable reference in hospitals, classrooms, workshops, and governmental and non-governmental organization. The Handbook's thirteen sections address the following areas: Clinical Engineering; Models of Clinical Engineering Practice; Technology Management; Safety Education and Training; Design, Manufacture, and Evaluation and Control of Medical Devices; Utilization and Service of Medical Devices; Information Technology; and Professionalism and Ethics. The Clinical Engineering Handbook provides the reader with prospects for the future of clinical engineering as well as guidelines and standards for best practice around the world. From telemedicine and IT issues, to sanitation and disaster planning, it brings together all the important aspects of clinical engineering. Clinical Engineers are the safety and quality facilitators in all medical facilities The most definitive, comprehensive, and up-to-date book available on the subject of

clinical engineering Over 170 contributions by leaders in the field of clinical engineering This book aims to elaborate the basics and recent advances of membrane distillation (MD) as the same shows promise for seawater desalination and wastewater treatment. Starting with fundamentals of MD processes, including the heat and mass transfer analysis, energy evaluation and mathematical modelling, text includes engineering and molecular design of MD membranes. Various types of hybrid systems, including freeze desalination (FD)-MD, MD-crystallization (MDC), pressure retarded osmosis (PRO)-MD and forward osmosis (FO)-MD, will be discussed in this book. Further, it summarizes the future of MD from both industrial and academic perspectives along with energy sources and economic analysis. Within the last fifty years the performance requirements for technical objects and systems were supplemented with: customer expectations (quality), abilities to prevent the loss of the object properties in operation time (reliability and maintainability), protection against the effects of undesirable events (safety and security) and the ability to

The Twenty-Second Symposium on Naval Hydrodynamics was held in Washington, D.C., from August 9-14, 1998. It coincided with the 100th anniversary of the David Taylor Model Basin. This international symposium was organized jointly by the Office of Naval Research (Mechanics and Energy Conversion S&T Division), the National Research Council (Naval Studies Board), and the Naval Surface Warfare Center, Carderock Division (David Taylor Model Basin). This biennial symposium promotes the technical exchange of naval research developments of common interest to all the countries of the world. The forum encourages both formal and informal discussion of the presented papers, and the occasion provides an opportunity for direct communication between international peers. Vols. 39-214 (1874/75-1921/22) have a section 2 containing "Other selected papers"; issued separately, 1923-35, as the institution's Selected engineering papers. Particulate Crystal Characteristics; Fluid-particle Transport Processes; Crystallization Principles and Techniques; Crystal Formation Processes; Crystallizer Design and Operation; Solid-Liquid Separation Processes; Design of Crystallization Process Systems. Sustainable Development and Innovations in Marine Technologies includes the papers presented at the 18th International Congress of the Maritime Association of the Mediterranean (IMAM 2019, Varna, Bulgaria, 9-11 September 2019). Sustainable Development and Innovations in Marine Technologies includes a wide range of topics: Aquaculture & Fishing; Construction; Defence & Security; Design; Dynamic response of structures; Degradation/ Defects in structures; Electrical equipment of ships; Human factors; Hydrodynamics; Legal/Social aspects; Logistics; Machinery & Control; Marine environmental protection; Materials; Navigation; Noise; Non-linear motions – manoeuvrability; Off-shore and coastal development; Off-shore renewable energy; Port operations; Prime movers; Propulsion; Safety at sea; Safety of Marine Systems; Sea waves; Seakeeping; Shaft & propellers; Ship resistance; Shipyards; Small & pleasure crafts; Stability; Static response of structures; Structures, and Wind loads. The IMAM series of Conferences started in 1978 when the first Congress was organised in Istanbul, Turkey. IMAM 2019 is the eighteenth edition, and in its nearly forty years of history, this biannual event has been organised throughout Europe. Sustainable Development and Innovations in Marine Technologies is essential reading for academics, engineers and all professionals involved in the area of sustainable and innovative marine technologies. This book describes the emerging field of self-organizing, multicore, distributed and real-time embedded systems. Self-organization of both hardware and software can be a key technique to handle the growing complexity of modern computing systems. Distributed systems running hundreds of tasks on dozens of processors, each equipped with multiple cores, requires self-organization principles to ensure efficient and reliable operation. This book addresses various, so-called Self-X features such as self-configuration, self-optimization, self-adaptation, self-healing and self-protection. Most machines and structures are required to operate with low levels of vibration as smooth running leads to reduced stresses and fatigue and little noise. This book provides a thorough explanation of the principles and methods used to analyse the vibrations of engineering systems, combined with a description of how these techniques and results can be applied to the study of control system dynamics. Numerous worked examples are included, as well as problems with worked solutions, and particular attention is paid to the mathematical modelling of dynamic systems and the derivation of the equations of motion. All engineers, practising and student, should have a good understanding of the methods of analysis available for predicting the vibration response of a system and how it can be modified to produce acceptable results. This text provides an invaluable insight into both. The object of the book is to outline the more important aspects of crystallization theory and practice, together with some closely allied topics. The book is intended to serve process chemists and engineers, and it should prove of interest to students of chemical engineering and chemical technology. "Vive la Revolution!" was the theme of the Twenty-Third Symposium on Naval Hydrodynamics held in Val de Reuil, France, from September 17-22, 2000 as more than 140 experts in ship design, construction, and operation came together to exchange naval research developments. The forum encouraged both formal and informal discussion of presented papers, and the occasion provides an opportunity for direct communication between international peers. This book includes sixty-three papers presented at the symposium which was organized jointly by the Office of Naval Research, the National Research Council (Naval Studies Board), and the Bassin d'Essais des Carènes. This book includes the ten topical areas discussed at the symposium: wave-induced motions and loads, hydrodynamics in ship design, propulsor hydrodynamics and hydroacoustics, CFD validation, viscous ship hydrodynamics, cavitation and bubbly flow, wave hydrodynamics, wake dynamics, shallow water hydrodynamics, and fluid dynamics in the naval context. 2020 Banff Mountain Book Competition Finalist in Mountain Literature Richard K. Nelson was the host of the national public radio series, "Encounters" Nelson was an anthropologist who lived with Alaska Native tribes and spoke both Inupiat and Koyukon Based on Nelson's journals and interviews with Gary Snyder, Barry Lopez, Rick Bass, and others "He listened to his [Native Alaskan] teachers, immersed himself in their landscapes as a naturalist, and became, without intending to, a great teacher himself." -- Barry Lopez, from the foreword Before his death in 2019, cultural anthropologist, author, and radio producer Richard K. Nelson's work focused primarily on the indigenous cultures of Alaska and, more generally, on the relationships between people and nature. Nelson lived for extended periods in Athabaskan and Alaskan Eskimo villages, experiences which inspired his earliest written works, including Hunters of the Northern Ice In Raven's Witness, Lentfer tells Nelson's story--from his midwestern childhood to his first experiences with Native culture in Alaska through his own lifelong passion for the land where he so belonged. Nelson was the author of the bestselling The Island Within and Heart and Blood. The recipient of multiple honorary degrees and numerous literary awards, he regularly packed auditoriums when he spoke. His depth of experience allowed him to become an intermediary between worlds. This is his story. Find out more at www.ravenswitness.com, and learn how you can help bring this story to life here. The two volume set LNCS 7133 and LNCS 7134 constitutes the thoroughly refereed post-conference proceedings of the 10th International Conference on Applied Parallel and Scientific Computing, PARA 2010, held in Reykjavik, Iceland, in June 2010. These volumes contain three keynote lectures, 29 revised papers and 45 minisymposia presentations arranged on the following topics: cloud computing, HPC algorithms, HPC programming tools, HPC in meteorology, parallel numerical algorithms, parallel computing in physics, scientific computing tools, HPC software engineering, simulations of atomic scale systems, tools and environments for accelerator based computational biomedicine, GPU computing, high performance computing interval methods, real-time access and processing of large data sets, linear algebra algorithms and software for multicore and hybrid architectures in honor of Fred Gustavson on his 75th birthday, memory and multicore issues in scientific computing - theory and praxis, multicore algorithms and implementations for application problems, fast PDE solvers and a posteriori error estimates, and scalable tools for high performance computing. Internet of things networks have shown promising outcomes in the provisioning of potentially critical services such as safety applications, healthcare, and manufacturing. However, there are many challenges related to the security, data analysis, and limited resources of the performed operations that require further investigation. Additional research is necessary to address the concerns and doubts of researchers and industry professionals in the Internet of Things. Security, Data Analytics, and Energy-Aware Solutions in the IoT reports novel methodologies, theories, technologies, and solutions for security and data analytics techniques and energy-aware solutions for the Internet of Things. Covering a wide range of topics such as laser attacks and personal data, it is ideal for academicians, industry professionals, researchers, instructors, and students. What sort of scar would smear across the face of history if the United States ceased to exist? First in a science-fiction trilogy, this thought-provoking novel takes place after a cataclysmic destruction of much of North America. Seeking to rise from the ashes, citizens of the Earth join forces and utilize new technology to send 21st-century pioneers across the universe to settle an unexplored planet 4.2 light years away. In order to survive the terrors and challenges of this new world, the 442 colonists necessarily must leave their Earth baggage behind and work together, hopefully without repeating the mistakes of the past. The biannual Formal Methods in Computer Aided Design conference (FMCAD 2000) is the third in a series of conferences under that title devoted to the use of discrete mathematical methods for the analysis of computer hardware and software. The work reported in this book describes the use of modeling languages and their associated automated analysis tools to specify and verify computing systems. Functional verification has become one of the principal costs in a modern computer design effort. In addition, verification of circuit models, timing, power, etc., requires even more effort. FMCAD provides a venue for academic and industrial researchers and practitioners to share their ideas and experiences of using discrete mathematical modeling and verification. It is noted with interest by the conference chairmen how this area has grown from just a few people 15 years ago to a vibrant area of research, development, and deployment. It is clear that these methods are helping reduce the cost of designing computing systems. As an example of this potential cost reduction, we have invited David Russino of Advanced Micro Devices, Inc. to describe his verification

of floating-point algorithms being used in AMD microprocessors. The program includes 30 regular presentations selected from 63 submitted papers. Sustainable Maritime Transportation and Exploitation of Sea Resources covers the most updated aspects of maritime transports and of coastal and sea resources exploitation, with a focus on (but not limited to) the Mediterranean area. Vessels for transportation are analysed from the viewpoint of ship design in terms of hydrodynamic, structural and plant optimisation, as well as from the perspective of construction, maintenance, operation and logistics. The exploitation of marine and coastal resources is covered in terms of fishing, aquaculture and renewable energy production as well as of subsea resources extraction. The characterisation of the marine environment is seen under the twofold perspective of providing reference loads and conditions for the design of means for the resources exploitation, but also of setting limits to the design in order to preserve the natural ambient and minimise the impact of anthropogenic activities related to both transportation and exploitation. Efficiency, reliability, safety and sustainability of sea- and Mediterranean-related human activities are the focus throughout the book. Sustainable Maritime Transportation and Exploitation of Sea Resources will be of interest to technical operators in the various areas involved (shipbuilding and ship-owner companies, research organisations, universities, certifying bodies), but will also serve as an updated reference work for government agencies and other institutional and educational bodies. This book includes a selection of 30 reviewed and enhanced manuscripts published during the 15th SpaceOps Conference held in May 2018 in Marseille, France. The selection was driven by their quality and relevance to the space operations community. The papers represent a cross-section of three main subject areas: Mission Management – management tasks for designing, preparing and operating a particular mission Spacecraft Operations – preparation and implementation of all activities to operate a space vehicle (crewed and uncrewed) under all conditions Ground Operations – preparation, qualification, and operations of a mission dedicated ground segment and appropriate infrastructure including antennas, control centers, and communication means and interfaces This book promotes the SpaceOps Committee's mission to foster the technical interchange on all aspects of space mission operations and ground data systems while promoting and maintaining an international community of space operations experts. Energy usage and consumption continue to rise globally each year, with the most efficient and cost-effective energy sources causing huge impacts to the environment. In an effort to mitigate harmful effects to the environment, implementing clean energy resources and utilizing green energy management strategies have become worldwide initiatives, with many countries from all regions quickly becoming leaders in renewable energy usage. Still, not every energy resource is without flaws. Researchers must develop effective and low-cost strategies for clean energy in order to find the balance between production and consumption. The Research Anthology on Clean Energy Management and Solutions provides in-depth research that explores strategies and techniques used in the energy production field to optimize energy efficiency in order to maintain clean and safe use while delivering ample energy coverage. The anthology also seeks solutions to energy that have not yet been optimized or are still produced in a way that is harmful to the environment. Covering topics such as hydrogen fuel cells, renewable energy, solar power, solar systems, cost savings, and climate protection, this text is essential for electrical engineers, nuclear engineers, environmentalists, managers, policymakers, government officials, professionals in the energy industry, researchers, academicians, and students looking for the latest research on clean energy management.

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