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**Modern History** *Chemistry* Physics *Information Processes and Technology* **Cambridge Checkpoints HSC Modern History 2014 Handbook of Active Ageing and Quality of Life** **Linguistic Communities and Migratory Processes** 26th European Symposium on Computer Aided Process Engineering **An Introduction to Community and Primary Health Care** 34th European Symposium on Computer Aided Process Engineering /15th International Symposium on Process Systems Engineering The Palgrave Handbook of Humanitarian Logistics and Supply Chain Management **Cambridge HSC Mathematics General 1** Economic and Social Factors Affecting the Health of Older Adults Crisis Communication and Crisis Management **Principles and Practice of Health Promotion and Public Health** **Cambridge Preliminary Mathematics General Power Prediction Modeling of Conventional High-Speed Craft Evidence-based Strength Intervention in Multiple Contexts** Innovation of Food Products in Halal Supply Chain Worldwide Health and Safety in Contemporary Britain **Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations for 2016 Supporting a Movement for Health and Health Equity** *Conflict Resolution for the Helping Professions* 32nd European Symposium on Computer Aided Process Engineering **Asteroids IV Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)** Terrorism: Commentary on Security Documents Volume 142 **Reflections on Power Prediction Modeling of Conventional High-Speed Craft Security, Education and Development in Contemporary Africa**

**Women in Science: Aging and Public Health 2022** Healthcare Entrepreneurship and Management **Hydrogen Economy**  
*Financial Services and General Government Appropriations for 2015* **Canadian Almanac & Directory, 2015** **Ballweg's Physician Assistant: A Guide to Clinical Practice - E-Book**  
*Interprofessional Perspectives for Community Practice* Urban Green Spaces and Human Health **Hydrogen Supply Chain** *JIMD Reports, Volume 20*

The demographics of aging –whether differences in life expectancy or shouldering the burden of care for our aging populations—reflect that aging is indeed a women’s issue. In the field of Aging and Public Health, there are many highly influential and successful women who are contributing to the field and tackling important questions about risk factors for successful aging as well intervention strategies for promoting health and quality of life across the life-course. 26th European Symposium on Computer Aided Process Engineering contains the papers presented at the 26th European Society of Computer-Aided Process Engineering (ESCAPE) Event held at Portorož Slovenia, from June 12th to June 15th, 2016. Themes discussed at the conference include Process-product Synthesis, Design and Integration, Modelling, Numerical analysis, Simulation and Optimization, Process Operations and Control and Education in CAPE/PSE. Presents findings and discussions from the 26th European Society of Computer-Aided Process Engineering (ESCAPE) Event Excel Success One HSC Biology 2021 Edition contains: Over 100 objective-response and short-answer questions from past HSC Papers 2001-2014 arranged into Module topics. Four sample HSC Examination papers with actual questions from the 2015-2018 HSC papers. All questions in these sample papers are on topics examinable in the new syllabus. Approximately half of each

paper's questions are actual past HSC questions and the other half are written for the new topics in the updated syllabus. Three Excel sample HSC Examination papers, written to the new syllabus and based on the new HSC exam format. The 2019 and 2020 HSC Examination papers. Answers to all questions with distribution of marks for each question. This inter-disciplinary book is the first in an Irish context to address issues connected with the 'super-diversifying' of language and society engendered by recent and historical migrations. It analyses novel data from interviews with allochthonous and autochthonous groups of monolingual and plurilingual youngsters living in Northern Ireland. A key aim is to test models within second language acquisition and language variation and change research. Another goal is to examine the extent to which distinctive migratory trends generated changes in the language ecologies of communities on the island of Ireland as well as globally in regions where the Irish settled intensively from the 1700s. The book also compares contemporary migratory experiences with historical records to further our understanding of the dynamics of identification through language across time. The first-ever book devoted to all aspects of the sociolinguistics of globalization and migration in Northern Ireland will be welcomed by scholars interested in the consequences for ethnolinguistic vitality of large-scale population movements. It could not be more timely given the fact that 2.5 million sought asylum in Europe alone during 2016, greatly enhancing its diversity. Post pandemic, the world is not the same place. There has been an increasing focus on healthcare and well-being, which has created a once-in-a-lifetime opportunity for healthcare innovations and startups. From adoption of a range of medical apps and telemedicine technologies to heightened public interest in smart wearables and medical devices, the demand for efficient healthcare delivery has been skyrocketing. This book aims to serve as a first-of-its-kind guide for

skill development in conception to commercialisation of healthcare products and services. It covers the gamut from the study of healthcare challenges, such as understanding customer requirements, market needs, and competition, to the various steps of the healthcare product development process, such as defining value propositions and specifications, the creation of minimum viable product (MVP) to prototyping, and manufacturing. The authors also discuss key commercialisation and management strategies, including the development of a robust business plan, fund raising, intellectual property, creating barriers to entry, and launching healthcare startups. Medical product pricing, positioning, sales and distribution, and customer acquisition are also presented with real-life examples. This book serves as a key reference not only for biomedical engineers who are looking to launch their products or services in the market but also for budding entrepreneurs willing to explore opportunities in the healthcare domain. For example, engineers and managers working on the development of medical devices require knowledge of ethical guidelines, regulations, and approvals to effectively launch their products in the medtech industry. On the other hand, entrepreneurs looking to benefit from the booming healthcare industry will find this book helpful in understanding the fundamentals of medical product development and commercialisation to launch their ideas successfully. JIMD Reports publishes case and short research reports in the area of inherited metabolic disorders. Case reports highlight some unusual or previously unrecorded feature relevant to the disorder or serve as an important reminder of clinical or biochemical features of a Mendelian disorder. This volume delineates the critical link among security, education and development in Africa and provides a multidisciplinary framework of analyses and possible solutions. Africa has had a long history that embodies layers of mass-scale

criminality and exploitation not merely from neocolonial and apartheid policies but also from political greed. This has impacted adversely on security, education and development in a way that deprivation of education and underdevelopment, in turn, re-creates security issues. The volume aims firstly to help augment scholarly inquiry into the nexus among in/security, education and development through the multidisciplinary framework of analyses; secondly to provide policymakers and educators with tools and a framework to comprehend the complexity and magnitude of the issues to which they ought to be sensitive and respond; and finally to provide caregivers and childcare agencies of the state a comprehensible framework of underlying, multifaceted sources of trauma experienced by children in extraordinary circumstances. It is organized in four sections: theoretical conceptualization on security and development; country cases on security and development; security and educational development; and country cases on security and education. Serving as a significant compass to understand and respond to the complex interplay and impact of security, education and development in Africa, it is of great use to graduates and scholars interested in Africa Politics, IPE, security studies and development studies.

Design, Deployment and Operation of a Hydrogen Supply Chain introduces current energy system and the challenges that may hinder the large-scale adoption of hydrogen as an energy carrier. It covers the different aspects of a methodological framework for designing a HSC, including production, storage, transportation and infrastructure. Each technology's advantages and drawbacks are evaluated, including their technology readiness level (TRL). The multiple applications of hydrogen for energy are presented, including use in fuel cells, combustion engines, as an alternative to natural gas and power to gas. Through analysis and forecasting, the authors explore deployment scenarios, considering the dynamic aspect of

HSCs. In addition, the book proposes methods and tools that can be selected for a multi-criteria optimal design, including performance drivers and economic, environmental and societal metrics. Due to its systems-based approach, this book is ideal for engineering professionals, researchers and graduate students in the field of energy systems, energy supply and management, process systems and even policymakers. Explores the key drivers of hydrogen supply chain design and performance evaluation, including production and storage facilities, transportation, information, sourcing, pricing and sustainability Presents multi-criteria tools for the optimization of hydrogen supply chains and their integration in the overall energy system Examines the available technology, their strengths and weaknesses, and their technology readiness levels (TRL), to draw future perspectives of hydrogen markets and propose deployment scenarios Includes international case studies of hydrogen supply chains at various scales The 2014 HSC workbooks provide students with real samples of students' exam responses, complete with markers' comments. Each workbook contains: ·the actual 2014 HSC exam questions ·the guidelines provided to exam markers ·samples of top-scoring student responses ·specific markers' comments on student responses. Cambridge preliminary mathematics general second edition has been completely revised for the stage 6 mathematics general syllabus implement from 2013, to prepare you for the HSC general 1 or general 2 course. Principles and Practice of Health Promotion and Public Health brings together the disciplines and fields of study that inform the work of promoting health into one book and provides many examples of practice. It starts with understanding ourselves and our health and continues with chapters on working in health promotion and public health; epidemiology; research methods and evidence-based practice; health psychology; communicating health; health education; health

promotion; public health; health protection; arts and health; tackling tobacco, alcohol and drugs; tackling overweight; promoting health in workplaces and promoting health within the National Health Service. Together these communicate the core principles of how to prevent disease and promote health when working with individuals, communities and populations in any country across the world. The book focusses on adults' health and includes international and UK examples. Principles and Practice of Health Promotion and Public Health complements Priorities for Health Promotion and Public Health, published in 2021. Both are core texts for those studying health promotion or public health and supplementary texts for students of healthcare and social care. They are ideal for public health practitioners and members of the wider public health workforce. Revised edition of Conflict resolution for the helping professions, 2007. Study as you go with Cambridge Checkpoints HSC. Updated annually to provide the most up-to-date exam preparation available, Cambridge Checkpoints HSC provides everything you need to prepare for your HSC exams in a go-anywhere format that fits easily into your school bag. Recent official HSC exam papers with suggested responses Hundreds of additional past exam and exam-style questions with answers Dot point summaries of key topics and concepts to help you pinpoint where you need further revision Innovation of Food Products in the Halal Supply Chain Worldwide covers the fundamentals and food guidelines of halal food production. Unlike other texts on the halal food market and halal certification, this book promotes halal product innovation by presenting exciting newly developed ingredients that are substitutions of non-halal ingredients with halal alternatives, such as lard substituted with modified vegetable fats, pig with halal goat/beef/camel/fish gelatin/collagen, alternative meat substitute or even additives. Innovations in halal processing technologies cover the latest techniques in halal production and

authentication, halal tracking/traceability in halal transport and logistics, a vast area at the end of a supply chain. All chapters are written by acknowledged experts in their field, thus the book brings together the top researchers in this essential topic of importance to a huge percentage of the world's population. Helps readers understand the advancement of available halal substitutes and replacers Offers tools to enhances product sustainability and food security through innovation Fosters innovation in food science with alternative halal ingredients The 2014 HSC workbooks provide students with real samples of students' exam responses, complete with markers' comments. Each workbook contains: ·the actual 2014 HSC exam questions ·the guidelines provided to exam markers ·samples of top-scoring student responses ·specific markers' comments on student responses. Over the past decade, asteroids have come to the forefront of planetary science.

Scientists across broad disciplines are increasingly recognizing that understanding asteroids is essential to discerning the basic processes of planetary formation, including how their current distribution bespeaks our solar system's cataclysmic past. For explorers, the nearest asteroids beckon as the most accessible milestones in interplanetary space, offering spaceflight destinations easier to reach than the lunar surface. For futurists, the prospects of asteroids as commercial resources tantalize as a twenty-first-century gold rush, albeit with far greater challenges than faced by nineteenth-century pioneers. For humanity, it is the realization that asteroids matter. It is not a question of if—but when—the next major impact will occur. While the disaster probabilities are thankfully small, fully cataloging and characterizing the potentially hazardous asteroid population remains unfinished business. Asteroids IV sets the latest scientific foundation upon which all these topics and more will be built upon for the future. Nearly 150 international authorities through more than 40 chapters convey the definitive



state of the field by detailing our current astronomical, compositional, geological, and geophysical knowledge of asteroids, as well as their unique physical processes and interrelationships with comets and meteorites. Most importantly, this volume outlines the outstanding questions that will focus and drive researchers and students of all ages toward new advances in the coming decade and beyond.

Terrorism: Commentary on Security Documents is a series that provides primary source documents and expert commentary on various topics relating to the worldwide effort to combat terrorism, as well as efforts by the United States and other nations to protect their national security interests. Volume 142, Security Strategies of the Second Obama Administration: 2015 Developments, examines the major national security and military strategy documents released by the Obama administration during 2015: the National Security Strategy; the National Military Strategy; the National Intelligence Strategy; and the Department of Defense Cyber Strategy. This volume is intended as a sequel to Volume 137 of this series, which considered the de facto national security strategy of the Obama administration prior to the release of these documents. It is divided into four topical sections, each of which is introduced by a commentary written by series editor Douglas C. Lovelace, Jr. In addition to the documents listed above, this volume also contains recent reports analyzing those documents, as well as a legal update on the current status of the Authorization for the Use of Military Force (AUMF) and a consideration of the War Powers Resolution.

Excel Success One HSC Chemistry 2021 Edition contains: Over 100 objective-response and short-answer questions from past HSC Papers 2001-2014 arranged into Module topics. Four sample HSC Examination papers with actual questions from the 2015-2018 HSC papers. All questions in these sample papers are on topics examinable in the new syllabus. Over half of each

paper's questions are actual past HSC questions and the others are written for the new topics in the updated syllabus. Three Excel sample HSC Examination papers, written to the new syllabus and based on the new HSC exam format. The 2019 and 2020 HSC Examination papers. Answers to all questions with distribution of marks for each question. Now more than ever health care professionals play an increased role in the promotion of health to populations. Unique and innovative, *Interprofessional Perspectives for Community Practice: Promoting Health, Well-being and Quality of Life* weaves everyday care into prevention, community, and population health, creating a new and more expansive vision of health for all without compromising traditional practices. Authors and editors Drs. Pizzi and Amir discuss and illustrate a client-centered preventive and health, well-being and quality of life approach rooted in best practice principles from interprofessional literature and firsthand experience. The text illustrates how allied health professionals implement those principles in their everyday and traditional practices with an emphasis on exploring health and well-being issues. *Interprofessional Perspectives for Community Practice* provides detailed guidance in program development and implementation. What's included in *Interprofessional Perspectives for Community Practice*: Clinical anecdotes on successful community practices A focus on primary and secondary prevention Assessments, interventions, and community practice examples Descriptions of community-based practice settings such as adult day care, independent living programs, hospice, and home health care Health and wellness across the lifespan Bonus chapters available online as PDFs for readers The first text of its kind to weave interprofessionalism, community practice, and health, well-being, and quality of life, *Interprofessional Perspectives for Community Practice: Promoting Health, Well-being and Quality of Life* is for all health care workers and students who wish to transfer

practice skills from the clinical setting to a population-based program development model. To equip students for a complex field of practice, *An Introduction to Community and Primary Health Care* offers a comprehensive foundation in the theory, skills and application of community and primary health care in Australia and New Zealand. This fully revised new edition incorporates current leading primary health care research and features new chapters on indigenous health, correctional nursing and nurse practitioners, reflecting the dynamic nature of community health care practice. Learning objectives, reflective and critical thinking questions, case studies and further reading consolidate understanding of key concepts. Students and instructors can also find comprehensive supplementary resources on the companion website. With each author writing in their areas of expertise, this practical resource equips students with the tools they will need as community and primary health care professionals working in a diverse range of settings across Australia and New Zealand. This handbook presents an overview of studies on the relationship of active ageing and quality of life. It addresses the new challenges of ageing from the paradigm of positive ageing (active, healthy and successful) for a better quality of life. It provides theoretical perspectives and empirical studies, including scientific knowledge as well as practical experiences about the good ageing and the quality of later life around the world, in order to respond to the challenges of an aged population. The handbook is structured in 4 sections covering theoretical and conceptual perspectives, social policy issues and research agenda, methods, measurement instrument-scales and evaluations, and lastly application studies including domains and geographical contexts. Chapter 5 is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com./div](http://link.springer.com./div) The Canadian Almanac & Directory is the most complete source of Canadian

information available - cultural, professional and financial institutions, legislative, governmental, judicial and educational organizations. Canada's authoritative sourcebook for all An important aspect of sustainable and regenerative urban development is to improve collective well-being standards. The United Nations endorsed the 2030 Agenda for Sustainable Development in 2015, which establishes seventeen Sustainable Development Goals (SDGs) to end poverty, protect the planet, and improve the lives and prospects of everyone and everywhere by 2030. Urban Green Spaces have a significant impact on the living condition and public health, which are closely associated with several SDGs including good health and well-being (SDG 3), clean water and sanitation (SDG 6), industry, innovation, and infrastructure (SDG 9), and sustainable cities and communities (SDG 11). Here, the concept of One Health gains high relevance by recognizing that interconnections among humans, animals, and environment is a key issue in public health and wellbeing, that stimulates interdisciplinary collaborations to develop a more holistic understanding and effective action against public health threats. This book analyses the perceived legitimacy of health and safety in post-1960 British public life. Since 2010 health and safety has appeared to be in crisis, being attacked by press, politicians and public alike, but are these claims of crisis accurate? How have understandings of health and safety changed over the past 60 years? By exploring the history, culture, and operation of health and safety in contemporary Britain, this book provides a new assessment of an understudied, but surprisingly far-reaching, part of the British political and social landscape. Combining archival research with focus group, social survey and oral history testimony, the book examines the historical background to health and safety, how health and safety has been enacted in public and in the workplace, the impact of changing economic, occupational

and social structures on the operation of health and safety, and the conflicts and interests that have shaped the area. Volume 1 (A and B) covers international organizations throughout the world, comprising their aims, activities and events. "Supporting a Movement for Health and Health Equity" is the summary of a workshop convened in December 2013 by the Institute of Medicine Roundtable on the Promotion of Health Equity and the Elimination of Health Disparities and the Roundtable on Population Health Improvement to explore the lessons that may be gleaned from social movements, both those that are health-related and those that are not primarily focused on health. Participants and presenters focused on elements identified from the history and sociology of social change movements and how such elements can be applied to present-day efforts nationally and across communities to improve the chances for long, healthy lives for all. The idea of movements and movement building is inextricably linked with the history of public health. Historically, most movements - including, for example, those for safer working conditions, for clean water, and for safe food - have emerged from the sustained efforts of many different groups of individuals, which were often organized in order to protest and advocate for changes in the name of such values as fairness and human rights. The purpose of the workshop was to have a conversation about how to support the fragments of health movements that roundtable members believed they could see occurring in society and in the health field. Recent reports from the National Academies have highlighted evidence that the United States gets poor value on its extraordinary investments in health - in particular, on its investments in health care - as American life expectancy lags behind that of other wealthy nations. As a result, many individuals and organizations, including the Healthy People 2020 initiative, have called for better health and longer lives. Hydrogen Economy:

Supply Chain, Life Cycle Analysis and Energy Transition for Sustainability explores the challenges for the transition into a sustainable hydrogen economy. In this book, experts from various academic backgrounds discuss the tools and methodologies for the analysis, planning, design and optimization of hydrogen supply chains. They examine the available technologies for hydrogen production, storage, transport, distribution and energy conversion, providing a cross cutting perspective on their sustainability. Environmental, social and economic aspects are considered, allowing for a more complete life cycle assessment of the entire supply chain. Methods and frameworks for multi-criteria decision making for the sustainable implementation of hydrogen systems are also covered. Providing a broad overview of the subject and well-recognized tools to manage hydrogen sustainability, this book is a useful resource for engineering researchers and PhD students in energy, environmental and industrial areas, energy economy researchers, practicing hydrogen energy engineers and technicians, energy and environmental consultants, life cycle assessment practitioners and consultants. Provides a broad perspective of the issues related to environmental, social and economic sustainability of hydrogen energy and its future perspectives Presents the current applied research and available tools for managing and assessing hydrogen energy sustainability, such as LCA, optimization, multi-criteria decision making and supply chain optimization Explores how experts in the field handle all issues related to the application of life cycle assessment for hydrogen production, storage, transport, distribution and end use In 2020 over 1 billion of the world's population were over the age of 60 years old, and it is expected to double by 2050 according to WHO. Due to the growing population of older adults, there is a focus on healthy aging that will benefit the individuals and the wider communities as older adults will be able to support family

members and partake in paid or voluntary work for a longer period of time. Currently a large number of older adults are unable to work, increasing the likelihood of economic instability with fewer streams of income. Economic instability has been proven to have health impacts including declining mental wellbeing, malnutrition, and the inability to afford prescribed medications. Social isolation proves to be another important factor in the overall health of older adults. The CDC reports that poor social interactions have been linked to a higher risk of developing multiple serious medical conditions. *Crisis Communication and Crisis Management: An Ethical Approach* is the only text on the market to provide students with the integration of ethical inquiry into the fundamentals of crisis communication.. Authors Burton St. John III and Yvette E. Pearson combine comprehensive coverage of the key skills, concepts, and theories of crisis communication with an extensive collection of contemporary case studies, giving students a strong understanding of the essential role that communicators play in moments of crisis. Students are encouraged to build upon their communication and ethical decision making skills using a variety of stakeholder inventories, hypothetical scenarios, discussion questions, and professional profiles. Students will also gain exposure to a mixture of discrete and ongoing crises, preparing them to manage both one-time crises and continuing crises. This SpringerBrief focuses on modeling and power evaluation of high-speed craft. The various power prediction methods, a principal design objective for high-speed craft of displacement, semi-displacement, and planing type, are addressed. At the core of the power prediction methods are mathematical models for resistance and propulsion efficiency. The models are based on the experimental data of various high-speed hull and propeller series. The regression analysis and artificial neural network (ANN) methods are used as an extraction tool for this kind of

mathematical models. A variety of mathematical models of this type are discussed in the book. Once these mathematical models have been developed and validated, they can be readily programmed into software tools, thereby enabling the parametric analyses required for the optimization of a high-speed craft design. This book provides the foundational reference for these software tools, and their use in the design of high-speed craft. High-speed craft are very different from conventional ships. Current professional literature leaves a gap in the documentation of best design practices for high-speed craft. This book is aimed at naval architects who design and develop various types of high-speed vessels. Excel Success One HSC Physics 2021 Edition contains: \* Over 100 objective-response and short-answer questions from past HSC Papers 2004-2014 arranged into Module topics; \* Four sample HSC Examination papers with actual questions from the 2015-2018 HSC papers. All questions in these sample papers are on topics examinable in the new syllabus. Over half of each paper's questions are actual past HSC questions and the others are written for the new topics in the updated syllabus; \* Three Excel sample HSC Examination papers, written to the new syllabus and based on the new HSC exam format; \* The 2019 and 2020 HSC Examination papers; \* Answers to all questions with distribution of marks for each question. 32nd European Symposium on Computer Aided Process Engineering: ESCAPE-32 contains the papers presented at the 32nd European Symposium of Computer Aided Process Engineering (ESCAPE) event held in Toulouse, France. It is a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students and consultants for chemical industries who work in process development and design. Presents findings and discussions from the 32nd European Symposium of Computer Aided Process Engineering (ESCAPE) event Designed as a highly



visual and practical resource to be used across the spectrum of lifelong learning, Ballweg's Physician Assistant, 7th Edition, helps you master all the core competencies needed for physician assistant certification, recertification, and clinical practice. It remains the only textbook that covers all aspects of the physician assistant profession, the PA curriculum, and the PA's role in clinical practice. Ideal for both students and practicing PAs, it features a succinct, bulleted writing style, convenient tables, practical case studies, and clinical application questions that enable you to master key concepts and clinical applications. Addresses all six physician assistant competencies, as well as providing guidance for the newly graduated PA entering practice. Includes five new chapters: What Is a Physician Assistant, and How Did We Get Here?, Effective Use of Technology for Patient-Centered Care, Success in the Clinical Year, Transitioning to Practice and Working in Teams, and Finding Your Niche. Features an enhanced focus on content unique to the PA profession that is not readily found in other resources, more illustrations for today's visually oriented learners, a more consistent format throughout, and a new emphasis on the appropriate use of social media among healthcare professionals. Provides updated content throughout to reflect the needs of the PA profession, including new content on self-care for the PA to help prevent burnout, suicide, and other hazards faced by healthcare professionals. Guides students in preparation for each core clinical rotation and common electives, as well as working with special patient populations such as patients experiencing homelessness and patients with disabilities. Includes quick-use resources, such as objectives and key points sections for each chapter, tip boxes with useful advice, abundant tables and images, and more than 130 updated case studies. Evolve Educator site with an image bank is available to instructors through their Elsevier sales rep or via request at

<https://evolve.elsevier.com>. The 34th European Symposium on Computer Aided Process Engineering / 15th International Symposium on Process Systems Engineering, contains the papers presented at the 34th European Symposium on Computer Aided Process Engineering / 15th International Symposium on Process Systems Engineering joint event. It is a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students, and consultants for chemical industries. Presents findings and discussions from the 34th European Symposium on Computer Aided Process Engineering / 15th International Symposium on Process Systems Engineering joint event Focusing on the specific challenges of research design and exploring the opportunities of conducting research in humanitarian logistics and supply chain management, this handbook is a significant contribution to future research. Chapters include extensive descriptions of methods used, highlighting their advantages and disadvantages, and the challenges in scoping, sampling, collecting and analysing data, as well as ensuring the quality of studies. Covering a wide variety of topics including risk and resilience and the impact of humanitarian logistics on capacity building, sustainability and the local economy, it also explores the need for scalability and co-ordination in the humanitarian network. Contributors provide important insight on future directions and offer crucial guidance for researchers conducting projects within the field. The proposed book addresses various power prediction methods, a principal design objective for high-speed craft of displacement, semi-displacement, and planing type. At the core of the power prediction methods are mathematical models based on experimental data derived from various high-speed hull and propeller series. Regression analysis and Artificial Neural Network (ANN) methods are used as extraction tools for this kind of models. The most significant factors for in-service power prediction

are bare hull resistance, dynamic trim, and the propeller's open-water efficiency. Therefore, mathematical modeling of these factors is a specific focus of the book. Furthermore, the book includes a summary of most of the power-prediction-relevant literature published in the last 50 years, and as such is intended as a reference overview of the best high-speed craft modeling practices. Once these mathematical models have been developed and validated, they can be readily programmed into software tools, thereby enabling the parametric analyses required for the optimization of a high-speed craft design. The proposed book is intended primarily for naval architects who design and develop various types of high-speed vessels (yachts, boats etc.), as well as for students who are interested in the design of fast vessels. The book includes useful Excel Macro Codes for the outlined mathematical models. Moreover, software for all considered models is provided.

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