

Humanitarian Logistics Meeting The Challenge Of Preparing For And Responding To Disasters

How do policy makers and managers square the circle of increasing demand and expectations for the delivery and quality of services against a backdrop of reduced public funding from government and philanthropists? Leaders, executives and managers are increasingly focusing on service operations improvement. In terms of research, public services are immature within the discipline of operations management, and existing knowledge is limited to government departments and large bureaucratic institutions. Drawing on a range of theory and frameworks, this book develops the research agenda, and knowledge and understanding in public service operations management, addressing the most pressing dilemmas faced by leaders, executives and operations managers in the public services environment. It offers a new empirical analysis of the impact of contextual factors, including the migration of planning systems founded on MRP/ERP and the adoption of industrial based improvement practices such as TQM, lean thinking and Six Sigma. This will be of interest to researchers, educators and advanced students in public management, service operations management, health service management and public policy studies.

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Many industries have begun to recognize the potential support that unmanned aerial vehicles (UAVs) offer, and this is no less true for the commercial sector. Current research on this field is narrowly focused on technological development to improve the functionality of delivery and endurance of the drone delivery in logistics, as well as on regulatory challenges posed by such operations. There is a need for further attention to be applied to operational and integration challenges associated with UAVs. *Unmanned Aerial Vehicles in Civilian Logistics and Supply Chain Management* is a collection of innovative research that investigates the opportunities and challenges for the use of UAVs in logistics and supply chain management with a specific aim to focus on the multifaceted impact of drone delivery. While highlighting topics including non-military operations, public management, and safety culture, this book is ideally designed for government administrators, managers, industry professionals, researchers, and students.

A range of recent disasters have demonstrated the critical role of effective logistics in disaster preparation and response in both developing and developed countries. *Humanitarian Logistics* provides thought-provoking guidance and discussion of the core issues facing those who are involved in managing the logistics of disaster relief. Peter Tatham and Martin Christopher have assembled

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a broad ranging collection of thoughts, ideas, concepts and approaches contributed by both practitioners and academics that, together, provide an overview of some of the core challenges facing today's humanitarian logistician. With insights from world leading experts in the field, this multi-contributed book provides guidance for best practice and offers potential solutions for effective response in this crucial area. Each chapter of the 2nd edition has been updated to reflect the latest developments, improvements and emerging challenges that have been encountered in this important and rapidly-growing field. This new edition of Humanitarian Logistics also increases the level of input from the practitioner community and broadens the geographic coverage, by introducing new perspectives from Asia and Africa and a number of experienced field practitioners. There are also entire new chapters on: Quality and accountability; Lessons learned from the 2004 Thailand Tsunami and the April 2012 Tsunami warning; Emergency preparedness and the experience of international humanitarian organizations in South East Asia; What next for humanitarian logistics? It also includes chapters that focus on emerging areas of challenge that have attracted recent attention in both practitioner and academic circles, including training and education, inter-agency coordination and information systems management.

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Imagine planning an event like the Olympics. Now imagine planning the same event but not knowing when or where it will take place, or how many will attend. This is what humanitarian logisticians are up against. Oversights result in serious consequences for the victims of disasters. So they have to get it right, fast. Have you ever wanted to know an effective and ethical way to: Design a study? Recruit participants? Report findings? And improve the quality and output of your research? The Research Companion focuses on the practical skills needed to complete research in the social or health sciences and development. It covers the behind-the-scenes essentials you need to run an effective and ethical piece of research and offers clear, honest advice to help avoid typical problems and improve standards and outcomes. It addresses each stage of the research process from thinking of a research idea, through to managing, monitoring, completing and reporting your project, and working effectively and safely with participants and colleagues. As well as covering theoretical issues in research, the book is full of links to other resources and contains practical tips and stories from researchers at all levels. This new edition is fully updated to reflect shifts in funding structures, open access, and online developments and has a link to a blog and friendly online community for readers to connect with diverse researchers all sharing experiences and offering practical advice. The Research

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Companion brings hard-earned lessons from the real world to offer invaluable guidance to all students of the social and health sciences, from those just beginning their first research project, to experienced researchers and practitioners. It will be instrumental in raising readers' competence levels and making their research more accurate, ethical, and productive.

International Freight Transport presents the key changes and issues in the fast-moving industries of trade and transport. It includes regional trade groupings, emergence of new large economies (i.e. BRIC countries), and pivotal regions such as the Middle East and Central America where major projects, such as new and widened canals, are underway or planned. These changes could redraw the trade map with major implications for transport patterns and solutions. Blending geography, economics, politics and trade, International Freight Transport provides insight into a wide range of topics, including: globalisation; demand versus supply; buyers and sellers; transport regulation, geography, modes and methods; transport ownership; alliances; and safety and security. The book is the only comprehensive and accessible book on international transport available.

Philanthropy – the use of private resources for public purposes – is undergoing a transformation, both in practice and as an emerging field of study. Expectations of what philanthropy can achieve have risen significantly in recent years,

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reflecting a substantial, but uneven, increase in global wealth and the rolling back of state services in anticipation that philanthropy will fill the void. In addition to this, experiments with entrepreneurial and venture philanthropy are producing novel intersections of the public, non-profit and private spheres, accompanied by new kinds of partnerships and hybrid organisational forms. The Routledge Companion to Philanthropy examines these changes and other challenges that philanthropists and philanthropic organisations face. With contributions from an international team of leading contemporary thinkers on philanthropy, this Companion provides an introduction to, and critical exploration of, philanthropy; discussing current theories, research and the diverse professional practices within the field from a variety of disciplinary perspectives. The Routledge Companion to Philanthropy is a rich and valuable resource for students, researchers, practitioners and policymakers working in or interested in philanthropy.

Dramatic scenes of devastation and suffering caused by disasters such as the 2011 Japanese earthquake and tsunami, are viewed with shock and horror by millions of us across the world. What we rarely see, however, are the international politics of disaster aid, mitigation and prevention that condition the collective response to natural catastrophes around the world. In this book,

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respected Canadian environmental sociologist John Hannigan argues that the global community of nations has failed time and again in establishing an effective and binding multilateral mechanism for coping with disasters, especially in the more vulnerable countries of the South. Written in an accessible and even-handed manner, *Disasters without Borders* is the first comprehensive account of the key milestones, debates, controversies and research relating to the international politics of natural disasters. Tracing the historical evolution of this policy field from its humanitarian origins in WWI right up to current efforts to cast climate change as the prime global driver of disaster risk, it highlights the ongoing mismatch between the way disaster has been conceptualised and the institutional architecture in place to manage it. The book's bold conclusion predicts the confluence of four emerging trends - politicisation/militarisation, catastrophic scenario building, privatisation of risk, and quantification, which could create a new system of disaster management wherein 'insurance logic' will replace humanitarian concern as the guiding principle. *Disasters Without Borders* is an ideal introductory text for students, lecturers and practitioners in the fields of international development studies, disaster management, politics and international affairs, and environmental geography/sociology.

Macrologistics is a strategic view of logistics as a production factor on national scales to

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support a shift towards sustainability. The book details logistics' evolution from a functional discipline to a value chain optimiser and, ultimately, an enabler of sustainability, including the evolution of metrics to support this shift. Macrologistics instrumentation involves striving towards the lowest total cost of ownership for national economies where, to improve decision-making, these costs should ultimately include the societal and ecological costs incurred due to logistics activities. From Logistics Strategy to Macrologistics represents macrologistics research outputs for a number of developing economies, identifying distinctive macrologistics policy and infrastructure investments themes to address national logistics challenges in developing economies. The book culminates in a discussion on the potential future role of logistics to support the shift to a more sustainable society, where an acceptance of a degrowth paradigm might be required, and even advisable, for a more secure, fulfilling future. Logistics (and economics) scholars, researchers and practitioners should steer their work towards contributing to the development of an ecologically sustainable society, where resources and returns are shared widely, sustainably and equitably.

This contributed volume combines conceptual and strategic research articles dealing with the "why" and "to what end" of sustainable operations in humanitarian logistics, as well as operational research contributions regarding the "how" from the United Nations as well as from researchers and organizations from different countries (Germany, Australia, Singapore, Netherlands, Italy, Denmark, Jordan). The target audience primarily comprises research experts, decision makers and practitioners in the field, but the book may also be beneficial for graduate students.

Supply Chain Management for Humanitarians provides an in-depth insight into the

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management of supply chains in the context of humanitarian logistics. This accessible and practical book considers humanitarian logistics from a strategic and operational perspective. The overarching theme is collaboration and coordination, one of the biggest challenges in the humanitarian community. Supply Chain Management for Humanitarians takes a problem-based learning approach, featuring real cases and examples from leading organizations including Oxfam, Unicef, and The Red Cross. Each chapter is self-standing, relating the content in each chapter to the supply chain as a whole. This enables the reader to easily dip into different sections. At the end of each chapter, there is a case study written by a leading practitioner currently working in the humanitarian field. Supply Chain Management for Humanitarians fills a much needed gap in the market and is essential reading for humanitarians worldwide.

Humanitarian crises have become more frequent, complex and protracted. If current trends continue, it is estimated that by 2030, humanitarian assistance costs could increase to \$50 billion per year. By then, two-thirds of the world's poor are at risk of living in conflict-affected countries. To bridge the gap, humanitarian organizations are increasingly utilizing innovative financing tools such as impact bonds, faith-based finance and other innovative financial products and services to mobilize greater funding to address humanitarian needs. This book is among the first to assess a set of innovative financing mechanisms that have been transforming the humanitarian sector and explores their key opportunities, challenges and future prospects. This book will be of interest to academics, practitioners, humanitarian organizations and policy makers involved in humanitarian financing and to the humanitarian sector in general.

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In a world of earthquakes, tsunamis, and terrorist attacks, emergency response plans are crucial to solving problems, overcoming challenges, and restoring and improving communities that have been affected by these catastrophic events. Although the necessity for quick and efficient aid is understood, researchers and professionals continue to strive for the best practices and methodologies to properly handle such significant events. *Emergency and Disaster Management: Concepts, Methodologies, Tools, and Applications* is an innovative reference source for the latest research on the theoretical and practical components of initiating crisis management and emergency response. Highlighting a range of topics such as preparedness and assessment, aid and relief, and the integration of smart technologies, this multi-volume book is designed for emergency professionals, policy makers, practitioners, academicians, and researchers interested in all aspects of disaster, crisis, and emergency studies.

As with other transportation methods, safety issues in aircraft can result in a total loss of life. Recently, the air transport industry has come under immense scrutiny after several deaths occurred due to aircraft design and airlines that allowed improperly inspected aircraft to fly. Spacecraft too have found errors in system software that could lead to catastrophic failure. It is imperative that the aviation and aerospace industries continue to revise and refine safety protocols from the construction and design of aircraft, to secure and improve aviation systems, and to test and inspect aircraft. *The Research Anthology on Reliability and Safety in Aviation Systems, Spacecraft, and Air Transport* is a vital reference source that examines the latest scholarly material on the use of adaptive and assistive technologies in aviation to establish clear guidelines for the design and implementation of such technologies to better serve the

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needs of both military and civilian pilots. It also covers new information technology use in aviation systems to streamline the cybersecurity, decision making, planning, and design processes within the aviation industry. Highlighting a range of topics such as air navigation systems, computer simulation, and airline operations, this multi-volume book is ideally designed for pilots, scientists, engineers, aviation operators, air traffic controllers, air crash investigators, teachers, academicians, researchers, and students.

This book is primarily intended to serve as a research-based textbook on sustainable supply chains for graduate programs in Business, Management, Industrial Engineering, and Industrial Ecology, but it should also be of interest for researchers in the broader sustainable supply chain space, whether from the operations management and industrial engineering side or more from the industrial ecology and life-cycle assessment side. Finding efficient solutions towards a more sustainable supply chain is increasingly important for managers, but clearly this raise difficult questions, often without clear answers. This book aims to provide insights into these kinds of questions for students and practitioners, based on the latest academic research.

Logistics and supply chain management are at the heart of almost every organization globally, as such developing a well-rounded understanding of these areas has never been more important. Learn from leading sector specialists about key topics, such as supply chain leadership, resilience, technology, design, and more with this guide. Global Logistics is the comprehensive guide to understanding the international and complex landscape of modern logistics and supply chain management. The book features expertise from over 30 contributors including leading academics, such as Martin Christopher, Alan McKinnon and Steve New, and experienced consultants to leading firms, such as Alan Braithwaite and Patrick Daly. A global

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approach has been taken, with input from over a dozen countries, and state-of-the-art research is situated alongside expert practical guidance. Covering a range of topics from supply chain strategy, risk management and sourcing to relationship management, resilience and ethics, Global Logistics is essential for those studying or working in logistics and supply chain. Now in its 8th edition, Global Logistics is fully revised and restructured. Readers will learn how to improve logistics, supply chain management and operational effectiveness as well as how to navigate global supply chains, ensure sustainability and engineer for the future. This new edition also covers: - the impact of leadership and talent management in logistics - how to maximize the potential of technology, industry 4.0 and digitalization - the ways in which different types of performance can be measured and optimized

The University of Jyvaskyla is proud to welcome the 12th edition of the European Conference in Cyber Warfare to Jyvaskyla. We intend to make this event as enjoyable as possible both on scientific and human aspects. As in previous years, ECCWS will address elements of both theory and practice of all aspects of Information Warfare and Security, and offers an opportunity for academics, practitioners and consultants involved in these areas to come together and exchange ideas. We also wish to attract operational papers dealing with the critical issue that the modern world has to face regarding the evolution of cyberwarfare capabilities development by nation states. The programme for the event promises an extensive range of peer-reviewed papers, networking opportunities and presentations from leaders in the field."

"This book furthers the scholarly understanding of SCM in disaster relief, particularly establishing the central role of logistics in averting and limiting unnecessary

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hardships"--Provided by publisher.

In this moment of unprecedented humanitarian crises, the representations of global disasters are increasingly common media themes around the world. The Routledge Companion to Media and Humanitarian Action explores the interconnections between media, old and new, and the humanitarian challenges that have come to define the twenty-first century. Contributors, including media professionals and experts in humanitarian affairs, grapple with what kinds of media language, discourse, terms, and campaigns can offer enough context and background knowledge to nurture informed global citizens. Case studies of media practices, content analysis and evaluation of media coverage, and representations of humanitarian emergencies and affairs offer further insight into the ways in which strategic communications are designed and implemented in field of humanitarian action.

"What a wonderful resource!"--Doody's Medical Reviews "The 4th Edition is unique in recognizing the rapid changes in both the causes of crises and the latest attempts to provide timely multidisciplinary approaches to the practice of this growing specialty...Evident throughout this edition is the call to identify crisis leadership among the increasingly talented base of nurses who have responsibility to move the profession to recognize and accept that they can be advocates for better planning, coordination, education and training." - Frederick M. Burkle, Jr., MD, MPH, DTM, PhD(Hon.), FAAP, FACEP Senior Fellow & Scientist, Harvard Humanitarian Initiative, Harvard University & T.C. Chan School of Public Health From the Foreword "This impressive edition builds upon the solid foundation of the first three award-winning editions with an expanded focus on climate change related disasters, globalization and its implications for emerging and re-emerging infectious diseases, the accommodation of high-

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risk, high-vulnerability populations, and the potential for disaster arising from a world witnessing increasing community violence and civil unrest.” -Patricia M. Davidson, PhD, MED, RN, FAAN Professor & Dean, Johns Hopkins School of Nursing From the Foreword “The contributing authors read like a “Who’s Who” of disaster leaders. They lend their special expertise and insights, which are supported and elucidated by cogent learning strategies in the use of case studies, student questions, and packed content in all areas of disaster participation, preparedness, policies, and research. For over 16 years [this book] has been the hallmark text in its field and this edition proves to be the best ever.” -Loretta C. Ford, RN, PNP, EdD Dean Emeritus, University of Rochester School of Nursing Founder of the National Nurse Practitioner Program Member, National Women’s Hall of Fame Featuring the most current, valid, and reliable evidence-based content available, this three-time AJN winner once again presents an unparalleled resource for disaster and emergency preparedness. Disasters lay heavy burdens upon healthcare systems that stretch all levels of society. While natural and man-made disasters are not new, the global nature, rate, type, and totality of their impact has only increased. The fourth edition of this foundational text uniquely addresses the rapid changes in these crises and analyzes the latest attempts to provide timely, multidisciplinary healthcare. Nurses consistently comprise seventy or more percent of responders to local, national, regional, and global crises, and represent a potentially untapped resource to achieve surge capacity goals and optimize population health outcomes. Considering recent world events and increasing geopolitical tensions, Disaster Nursing and Emergency Preparedness, Fourth Edition now features expanded content on the ubiquitous threat of terrorism, potential detonation of thermonuclear weapons, emerging and reemerging infectious diseases, and

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increasing frequency and intensity of natural disasters from climate change. This text promotes competency-based expert nursing care during disasters and positive health outcomes for small and large populations consistent with the Federal Disaster Response Framework. Whenever possible, content is mapped to published core competencies for preparing health professions' students for response to terrorism, disaster events, and public health emergencies. The fourth edition retains the clearly organized format in each chapter that includes an overview, learning objectives, a summary, and case study with reflective questions. New to the Fourth Edition: Addresses the most recent landmark agreements Sendai Framework for Disaster Risk Reduction 2015–2030, the United Nations' Sustainable Development Goals, and the Paris Climate Agreement Covers public health emergencies involving community violence and civil unrest Expands coverage of planning for and accommodating high-risk, high-vulnerability populations Aligns with the U.S. National Health Security Strategy and the National Planning Frameworks Provides focused content on medical countermeasures Includes an improved instructor package with guide, PowerPoint slides, and case studies with questions for reflection in every chapter

Effective logistics play a critical role in disaster preparation and response, but how can those working in this field deliver in environments which are often dangerous and unstable?

Humanitarian Logistics provides thought-provoking guidance and discussion of the core issues facing practitioners involved in managing the logistics of disaster relief. With insights from academics and practitioners who have worked in these situations, this multi-contributed book offers suggestions for best practice and international perspectives on the nature of the humanitarian logistics challenge. Now in its third edition, Humanitarian Logistics is fully

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updated and contains new chapters on providing support for complex emergencies, waste management and reverse logistics, the application of value stream analysis and the potential of new technologies such as 3D printing, cash transfer programmes and drones. With a particular focus on pre-disaster preparation and inter-agency cooperation, this book is essential reading for anyone who needs to understand how to respond effectively during a disaster or crisis. The papers in this volume introduce powerful new innovations in global supply chain networks. The best papers from the 2014 annual conference of the European regional subdivision of the Decision Sciences Institute (EDSI), they analyze the latest global trends associated with: Sustainability and corporate social responsibility Applications in modeling and decision techniques Social network analysis for better decision-making Innovation and entrepreneurship Relationship management ERP/Enterprise Business Intelligence Globalized manufacturing Performance and revenue management Risk management Business innovation management Supply chain operations management, and more The papers collected here will be valuable to wide audiences of faculty, researchers, and students in diverse programs covering supply chain and/or operations management, and for others interested in the frontiers of decision science.

This book discusses emerging themes in the area of humanitarian logistics. It examines how humanitarian logistics and supply chains play a key role, focusing on rapidly delivering the correct amount of goods, people and monetary resources to the locations needed to achieve the success of relief efforts in response to global emergencies such as flood, earthquakes, wars etc. With an increase in the frequency, magnitude and impact of both natural and manmade disasters, effective delivery of humanitarian aid is an issue that is becoming

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increasingly important in the context of disaster management. The book focuses on how logistics systems and supply chains responsible for delivering this aid from origin to recipients can be made more effective and efficient. It also discusses how the development of information technology systems that can provide visibility to the disaster relief supply chain marks a huge step forward for the humanitarian sector as a whole. As more organizations begin to adopt and implement these systems and visibility is established, the use of key performance indicators will then become essential to further enhance the efficiency and effectiveness of these supply chains.

Blending history, science, and gripping storytelling, *Strong in the Rain* brings the 9.0 magnitude earthquake that struck Japan in 2011 and its immediate aftermath to life through the eyes of the men and women who experienced it. Following the narratives of six individuals, the book traces the shape of a disaster and the heroics it prompted, including that of David Chumreong, a Texan with Thai roots, trapped in his school's gymnasium with hundreds of students and teachers as it begins to flood, and Taro Watanabe, who thought nothing of returning to the Fukushima plant to fight the nuclear disaster, despite the effects that he knew would stay with him for the rest of his life. This is a beautifully written and moving account of how the Japanese experienced one of the worst earthquakes in history and endured its horrific consequences.

Humanitarian logistics has received increasing interest both from logistics academics and practitioners as a result of the dramatic increase in both natural and man-made disasters. The impact on affected populations can be all

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the more limited as much as the logistics operations in response to emergencies are effective and efficient. Collaboration with various relevant actors involving in the emergency resolution can help to reduce costs, increase speed, and improve the leanness/agility level in the humanitarian supply chain, and viceversa, poor coordination among them is cited as an explanation for performance gaps. As disasters become increasingly complex better collaboration not only with government agencies, military units, humanitarian organizations, but also through partnerships with private business becomes more and more important. However, such partnerships are not easy as organizations in the two sectors are extremely different. The main aim of this study is exploring more in depth the partnership between profit and non-profit in emergency relief operations, with a specific attention to the cross-learning potential for both the logistics service provider (profit) and the humanitarian organization (non-profit).

Community, Environment and Disaster Risk Management provides a series of cross-disciplinary approaches and methods which are exemplified by case studies from different parts of the world. Volume 18 looks at how cities and countries recover from catastrophic disasters with a specific focus on Asia. Focusing on the specific challenges of research design and exploring the opportunities of conducting research in humanitarian logistics and supply chain

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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.

This book surveys new algorithmic approaches and applications to natural and man-made disasters such as oil spills, hurricanes, earthquakes and wildfires. Based on the “Third International Conference on Dynamics of Disasters” held in Kalamata, Greece, July 2017, this Work includes contributions in evacuation logistics, disaster communications between first responders, disaster relief, and a case study on humanitarian logistics. Multi-disciplinary theories, tools, techniques and methodologies are linked with disasters from mitigation and preparedness to response and recovery. The interdisciplinary approach to problems in economics, optimization, government, management, business, humanities, engineering, medicine, mathematics, computer science, behavioral studies, emergency

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services, and environmental studies will engage readers from a wide variety of fields and backgrounds.

Given that institutions of higher education have a predisposition to compartmentalize and delineate areas of study, creative technology may seem oxymoronic. On the contrary, the very basis of western thought is found in the idea of transcendent knowledge. The marriage of opposing disciplines therefore acts as a more holistic approach to education. Creative Technologies for Multidisciplinary Applications acts as an inspiration to educators and researchers who wish to participate in the future of such multidisciplinary disciplines. Because creative technology encompasses many applications with the realm of art, gaming, the humanities, and digitization, this book features a diverse collection of relevant research for the modern world. It is a pivotal reference publication for educators, students, and researchers in fields related to sociology, technology, and the humanities.

Emergencies and disaster situations are harsh testing grounds for the logistical and organisational capacity of affected countries, and this is especially true in the health sector. The acquisition, storage, mobilisation and distribution of drugs and pharmaceutical supplies to the victims of a disaster require efficient handling and use of resources. This publication provides guidelines for authorities and

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organisations for the management of planning for disasters, and underlines the fact that each step in the supply chain should be seen as a critical and interrelated link. The techniques and procedures proposed are multi-sectoral in nature and can be used in any type of emergency operation.

Provides an overview of the various types of disasters that may occur, the myriad of actors that are involved in emergency management, and the diverse theoretical frameworks from which post-disaster activities may be approached. • Includes updated chapters keeping the material fresh and accessible while incorporating recent changes in policy and new research • Highlights lessons learned from such incidents and catastrophes as: Hurricane Katrina, Earthquake in Haiti, Parking lot collapse in Miami, West Texas industrial explosion, Train wreck in Spain, Aurora movie shooting, Times Square bombing, etc. • Examines typical challenges to be expected during response efforts along with tools and techniques to enhance the ability to protect lives, reduce property damage and minimize disruption • Includes an instructor package which contains: Sample Syllabus, Teaching Suggestions, Test bank, and PowerPoints

This volume provides a survey of current research problems and results in humanitarian operations research. Additionally, it discusses existing applications of humanitarian operations research, and considers new research efforts that

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clearly extend existing research and applications. The book is divided into three sections that provide an overview of the subject, a look at the theory, and an examination of applications. The overview section presents chapters on modeling approaches and metrics to evaluate nonprofit operations; chief findings of fieldwork research in disaster response logistics; the use of cash as a form of relief; and measuring markets that supply cash-based humanitarian interventions. The theory section includes chapters that examine the partner proliferation problem in disaster response networks; a case study of humanitarian logistics that examines how humanitarian culture informs change adoption; and a look at the current state of the art for information visibility in humanitarian operations. Finally, the application section focuses on blood products, vaccines, and food assistance, with individual chapters on efficient inventorying and distribution of blood products during disasters; a detailed look at modeling in the context of the vaccine supply chain; a framework for achieving equity, effectiveness, and efficiency in food bank operations; and a spatio-temporal vulnerability assessment of the resilience of a population affected by sudden lack of food. This edited collection collates the most up-to-date and important research within the area of operations and logistics management. Boasting the combined expertise of one of the largest logistics and operations management academic

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teams in Europe, it provides both depth and diversity in a balanced portfolio. The first two sections are concerned with key contemporary issues in the subject area, providing a current and up-to-date overview of the field. Section three presents a selection of important cross-cutting themes that impinge upon and inform teaching, research and practice, while the final section includes a celebration of research highlights and showcases cutting-edge applications from leaders in the field. Invaluable to students, researchers and academics alike, this book is compulsory reading for those active within operations and logistics research.

This is an indispensable career guide for everyone wanting to work in or already working in the international development and humanitarian emergencies sector. It provides a general introduction and insight into the sector, for those exploring it as a potential career, and offers students up-to-date advice when choosing a course, whether it's at undergraduate or postgraduate level. Should they study International Development, or will Public Health, Environmental studies or Media get them closer to where they want to get? This book offers graduates or career changers who are new to the sector an understanding of what skills and experience will make them stand out above the competition and get that job. It enables those already working in the sector to gain a long term view of where

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they want to go and how they might structure their professional development to gain the skills and competencies necessary to get their career on to an upward trajectory. This book draws heavily on insiders' advice, case studies and top tips, to provide the reader with various perspectives and insights. How do you become a country director for an international NGO? How can one become a gender mainstreaming expert? What can you do to get in to consultancy? Career trajectories, Career clinics Q&A boxes and the personal planner in the appendix will help you get to where you want to go. It also gives a detailed account of the myriad of careers and specialism available within the sector and methodologically describes the pros and cons of each option. So if you are not sure where you want to go with your career, you will be after you have read this book. Whether it's Programme Management, becoming an Environmental Advisor, or an Academic this book will give you an insight into what the job entails and how you can get in to it. It will be an invaluable guide to all readers, irrespective of their country of origin, who are interested in the sector.

Humanitarianism and Security contends that the search for stability and peace remains central to the political environment within the Democratic Republic of Congo (DRC). Despite some positive political and economic progress observed in the Central African Region and the DRC in particular, the future of the region

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remains uncertain. Due to many unaddressed issues, including the multidimensional manifestations of humanitarian crises, the region is fragile with the potential for a relapse into violent conflict. Moreover, the DRC's humanitarian crises have yet to be effectively addressed as consequences and promoters of insecurity and violence. Based on the "humanitarian-security-development" paradigm as an inclusive operational framework, Humanitarianism and Security articulates the trend of peace recovery in the DRC as contingent upon issues of security and the refugee/internally displaced population crisis. It claims and demonstrates that effective solutions must incorporate considerations of pre-colonial security dynamics, the place and role of identity within the humanitarian discourse/strategies, the determinants of transitional public security (TPS), and the various dynamics regarding the return and re/integration processes, into one operational framework. This framework must be accompanied by a continued effort to build strong local institutions as a critical component to the sustainability of operations.

Disaster management is a vibrant and growing field, driven by government spending in the wake of terrorist attacks and environmental debacles, as well as private-sector hiring of risk managers and emergency planners. An ever-increasing number of practicing professionals needs a reference that can provide

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a solid foundation in ALL major phases of supervision – mitigation, preparedness, response, communications, and recovery. As climate change leads to further costly catastrophes and as countries around the world continue to struggle with terrorism, the demand for solutions will only grow. This revised edition of Coppola's revered resource meets said demand head-on with more focused, current, thoughtfully analyzed, and effective approaches to disaster relief. Expanded coverage of global approaches to disaster management with enhanced data and research on disasters around the world, including Cyclone Nargis, the H1N1 pandemic, and the tsunami in American Samoa More material on risk management, mitigation, myths that affect behavior during crises, and post-disaster evaluation of the response Up-to-date information on the role of aid organizations and international financial institutions like the World Bank in disaster response, as well as commentary on the latest research in disaster management and policy studies

This book summarizes the effect of COVID-19 on the global supply chain. Eminent researchers, practitioners, and professors discuss the challenges faced by supply chain providers and supply chain strategies related to various global, retail, fast moving consumer goods, humanitarian, pharmaceutical, and agricultural supply chains. This book also suggests the resilient approach

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adopted by supply chain organizations for quick recovery and re-establishing their networks. This book helps the readers explore the pandemic's impact on the supply chain and rebuilding the same using suitable approaches.

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This book covers algorithm portfolios, multi-method schemes that harness optimization algorithms into a joint framework to solve optimization problems. It is expected to be a primary reference point for researchers and doctoral students in relevant domains that seek a quick exposure to the field. The presentation focuses primarily on the applicability of the methods and the non-expert reader will find this book useful for starting designing and implementing algorithm portfolios. The book familiarizes the reader with algorithm portfolios through current advances, applications, and open problems. Fundamental issues in building effective and efficient algorithm portfolios such as selection of constituent algorithms, allocation of computational resources, interaction between algorithms and parallelism vs. sequential implementations are discussed. Several new applications are analyzed and insights on the underlying algorithmic designs are provided. Future directions, new challenges, and open problems in the design of algorithm portfolios and applications are explored to further motivate research in

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this field.

Disaster Theory: An Interdisciplinary Approach to Concepts and Causes offers the theoretical background needed to understand what disasters are and why they occur. Drawing on related disciplines, including sociology, risk theory, and seminal research on disasters and emergency management, Disaster Theory clearly lays out the conceptual framework of the emerging field of disaster studies. Tailored to the needs of advanced undergraduates and graduate students, this unique text also provides an ideal capstone for students who have already been introduced to the fundamentals of emergency management.

Disaster Theory emphasizes the application of critical thinking in understanding disasters and their causes by synthesizing a wide range of information on theory and practice, including input from leading scholars in the field. Offers the first cohesive depiction of disaster theory Incorporates material from leading thinkers in the field, as well as student exercises and critical thinking questions, making this a rich resource for advanced courses Written from an international perspective and includes case studies of disasters and hazards from around the world for comparing the leading models of emergency response Challenges the reader to think critically about important questions in disaster management from various points of view

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