

Features:

- Part 1 offers an A-to-Z resource for every aspect of disaster medicine and management, while Part 2 features an exhaustive compilation of every conceivable disaster event, organized to facilitate quick reference in a real-time setting.
- Covers basic concepts such as identification of risks, organizational preparedness, equipment planning, disaster education and training, and more advanced concepts such as disaster risk reduction, health in complex emergencies, building local disaster resiliency, psychological impact of disasters on children, and more.
- Contains new decision trees throughout that help guide you through the decision-making process in difficult situations.
- Uses an easy-to-follow, templated approach to historical perspectives, overviews of current practice including pre-incident and post-incident actions, medical treatment of casualties, and potential pitfalls.
- Includes updated sections on man-made disasters, including mass casualties, active shooter situations, integrated response to terrorist attacks, and chemical/biological/radiological/nuclear/high-yield explosives disasters.
- Discusses the latest technologies, such as the use of mobile disaster applications, drone response systems, and virtual reality simulation training.
- Features thoroughly updated information on crisis leadership, practical applications of disaster epidemiology, disaster and climate change, and the integration of non-government agencies (NGOs) in disaster response—a critical topic for those responding to humanitarian needs overseas.
- Includes new chapters on Pandemic Preparedness and Response, Disaster Medicine in a Changing Climate, Disaster Response in Asia, Building Local Capacity and Disaster Resiliency, Civilian-Military Coordination in Disaster Response, Medical Simulation in Disaster Preparedness, Disaster Nursing, Crisis Meta-Leadership, Palliative Care in Disasters, Counter-Terrorism Medicine, SARS CoV (COVID-19 and SARS), and Disasters in Space Travel.
- An eBook version is included with purchase. The eBook allows you to access all of the text, figures and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud.

Περιεχόμενα:

- 1 Introduction to Disaster Medicine
- 2 Public Health and Disasters
- 3 Role of Emergency Medical Services in Disaster Management and Preparedness
- 4 Role of Emergency Medicine in Disaster Management
- 5 Role of Hospitals in Disaster
- 6 Pandemic Preparedness and Response

- 7 Health In Complex Emergencies
- 8 Disaster Medicine in a Changing Climate
- 9 Children and Disaster
- 10 Psychological Impact of Disaster on Displaced Populations and Refugees of Multiple Traumas
- 11 Ethical Issues in Disaster Medicine
- 12 Issues of Liability in Emergency Response
- 13 Disaster Response in the United States
- 14 Disaster Response in Europe
- 15 Disaster Response in Asia
- 16 Building Local Capacity and Disaster Resiliency
- 17 Local Disaster Response in the United States
- 18 State Disaster Response: Systems and Programs
- 19 Selected U.S. Federal Disaster Response Agencies and Capabilities
- 20 Global Disaster Response and Emergency Medical Teams
- 21 Civil-Military Coordination in Disaster Response
- 22 Evaluation of emerging data to inform disaster response
- 23 Disaster/Emergency Management Programs
- 24 Emergency Department Design
- 25 Hazard Vulnerability Analysis
- 26 Public Information Management
- 27 Informatics and Information Technology in Disaster Medicine
- 28 Medical Simulation in Disaster Preparedness
- 29 Disaster Mitigation
- 30 Disaster Risk Management
- 31 Vaccines
- 32 Occupational and Environmental Medicine: An Asset in Time of Crisis
- 33 Worker Health and Safety in Disaster Response
- 34 Disaster Preparedness
- 35 Policy Issues in Disaster Preparedness and Response
- 36 Mutual Aid
- 37 Disaster Nursing
- 38 Patient Surge
- 39 Accidental Versus Intentional Event
- 40 CRISIS META-LEADERSHIP AND THE PRACTICE OF DISASTER MEDICINE
- 41 The Incident Command System
- 42 Scene Safety and Situational Awareness in Disaster Response
- 43 Pre- and Post-Disaster Needs Assessment
- 44 Operations and Logistics
- 45 Disaster Communications
- 46 Mobile Disaster Applications
- 47 The Role of Social Media in Disasters
- 48 Volunteers and Donations
- 49 Personal Protective Equipment
- 50 Role of Bystanders in Disasters

51 Disaster Surveillance Systems
52 Use of Geographic Information Systems in Crises
53 Management of Mass Fatalities
54 Disaster Management of Animals
55 Urban Search and Rescue
56 Triage
57 Patient Tracking Systems in Disasters
58 Mass Gatherings
59 Infectious Disease in a Disaster Zone
60 Pharmaceuticals and Medical Equipment in Disasters
61 Displaced Populations
62 Palliative Care in Disasters
63 Rehabilitation and Reconstruction
64 Disaster Education and Research
65 Practical Applications of Disaster Epidemiology
66 Measures of Effectiveness in Disaster Management
67 Counter-Terrorism Medicine
68 The Psychology of Terrorism
69 Thinking Outside the Box: Health Service Support Considerations in the Era of Asymmetrical Threats
70 Integrated Response to Terrorist Attacks
71 Coordinated Attack
72 Active Shooter Response
73 Hostage Taking
74 Civil Unrest and Rioting
75 Introduction to Explosions and Blasts
76 Suicide Bomber
77 Improvised Explosive Devices : IED and VBIED
78 Conventional Explosions at Mass Gatherings
79 Nuclear and Radiation Disaster Management
80 Dirty Bomb (Radiological Dispersal Device)
81 General Approach to Chemical Attack
82 Biological Attack
83 Future Biological and Chemical Weapons
84 Directed-Energy Weapons
85 Chemical, Biological, Radiological, and Nuclear Quarantine
86 Decontamination: Chemical and Radiation
87 Military Lessons Learned for Disaster Response
88 Integration of Law Enforcement and Military Resources with the Emergency Response to a Terrorist Incident
89 Tactical Emergency Medical Support
90 Operational Rescue
91 Operations Security, Site Security, and Incident Response
92 Medical Intelligence

93 Dignitary Protective Medicine
94 Introduction to Natural Disasters
95 Hurricanes, Cyclones and Typhoons
96 Earthquake
97 Tornado
98 Flood
99 Tsunami
100 Heat Wave
101 Winter Storm
102 Volcanic Eruption
103 Famine
104 Landslides
105 Avalanche
106 Introduction to Nuclear and Radiological Disasters
107 Nuclear Detonation
108 Radiation Accident—Isolated and Dispersed Exposure
109 Nuclear Power Plant Meltdown
110 Introduction to Chemical Disasters
111 Industrial-Chemical Disasters
112 Nerve-Agent Mass Casualty Incidents
113 Vesicant Agent Attack
114 Respiratory-Agent Mass Casualty Incident (Toxic Inhalational Injury)
115 Asphyxiant (Cyanide) Attack
116 Antimuscarinic Agent Attack
117 Mass Casualty Incidents from Hallucinogenic Agents: LSD, Other Indoles, and Phenylethylamine Derivatives
118 Opioid Agent Attack
119 Caustic Agent Mass Casualty Incident, with Special Emphasis on Hydrogen Fluoride (HF)
120 Mass Casualties from Crowd-Control Agents
121 Cholinergic Agent Attack (Nicotine, Epibatidine, and Anatoxin-A)
122 Anesthetic-Agent Mass Casualty Incident
123 Introduction to Biologic Agents
124 Bacillus Anthracis (Anthrax) Attack
125 Yersinia Pestis (Plague) Bioterrorism Attack
126 Francisella Tularensis (Tularemia) Attack
127 Brucella Species (Brucellosis) Attack
128 Coxiella burnetii (Q Fever) Attack
129 Rickettsia prowazekii Attack (Typhus Fever)
130 Orientia Tsutsugamushi (Scrub Typhus) Attack
131 Rickettsia rickettsii (Rocky Mountain Spotted Fever) Attack
132 Vibrio cholerae (Cholera) Attack
133 Shigella dysenteriae (Shigellosis) Attack
134 Salmonella (Salmonellosis and Typhoid Fever) Attack
135 Burkholderia (Glanders and Melioidosis) Attack

- 136 Chlamydomphila psittaci (Psittacosis) Attack
- 137 Escherichia coli O157:H7 Attack (Enterohemorrhagic E. Coli)
- 138 Viral Encephalitis caused by Alphaviruses
- 139 Tick-Borne Encephalitis Virus Attack
- 140 Viral Hemorrhagic Fever Attack
- 141 Variola Major Virus (Smallpox) Attack
- 142 Influenza Virus Attack
- 143 Monkeypox Attack
- 144 Hantavirus Pulmonary Syndrome Attack
- 145 Henipavirus Attack: Hendra and Nipah Viruses
- 146 SARS-CoV (COVID-19 and SARS)
- 147 Staphylococcal Enterotoxin B Attack
- 148 Clostridium botulinum Toxin (Botulism) Attack
- 149 Clostridium perfringens Toxin (Epsilon Toxin) Attack
- 150 Marine Toxin Attack
- 151 T-2 Toxin (Trichothecene Mycotoxins) Attack
- 152 Ricin Toxin from Ricinus communis (Castor Bean) Attack
- 153 Aflatoxin (Aspergillus Species) Attack
- 154 Coccidioides immitis (Coccidioidomycosis) Attack
- 155 Histoplasma capsulatum (Histoplasmosis) Attack
- 156 Cryptosporidium parvum (Cryptosporidiosis) Attack
- 157 Explosions: Fireworks
- 158 Rocketpropelled Grenade Attack
- 159 Conventional Explosion at a Hospital
- 160 Conventional Explosion in a High-Rise Building
- 161 Conventional Explosion at a Nuclear Power Plant
- 162 Tunnel Explosion
- 163 Liquified Natural Gas Explosion
- 164 Liquified Natural Gas Tanker Truck Explosion
- 165 Petroleum Distillation and Processing Facility Explosion
- 166 Introduction to Fires and Burns
- 167 Structure Fires
- 168 Wildland Fires and the Wildland Urban Interface
- 169 Tunnel Fire
- 170 Gunshot Attack: Mass Casualties
- 171 Sniper Attack
- 172 Introduction To Structural Collapse (Crush Injury and Crush Syndrome)
- 173 Train Derailment
- 174 Subway Derailment
- 175 Bus Accident
- 176 Aircraft Crash Preparedness and Response
- 177 Air Show Disaster
- 178 Asteroid Impacts, Orbital Debris and Spacecraft Re-entry Disasters
- 179 Building Collapse

180 Bridge Collapse
181 Human Stampede
182 Mining Accident
183 Submarine or Surface Vessel Accident
184 Aircraft Hijacking
185 Aircraft Crash into a High-Rise Building
186 Maritime Disasters
187 Cruise Ship Infectious Disease Outbreak
188 Massive Power System Failures
189 Hospital Power Outages
190 Intentional Contamination of Water Supplies
191 Food-Supply Contamination
192 Ecological Terrorism
193 Computer and Electronic Terrorism and Emergency Medical Services
194 Disasters in Space Travel: From Earth to Orbit, and Beyond
Index/Front Matter