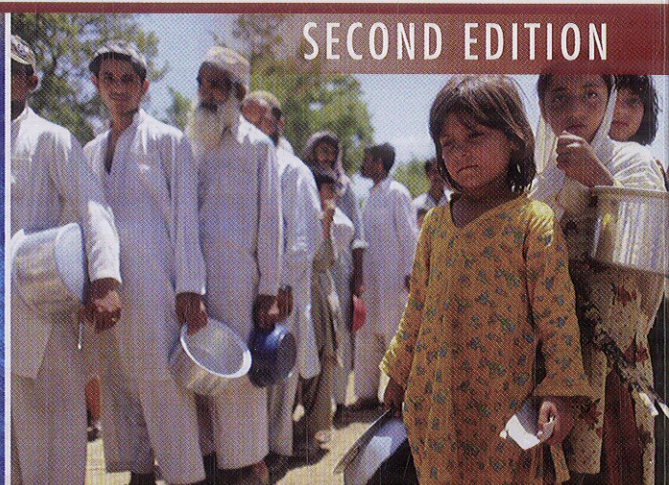


Introduction to

INTERNATIONAL DISASTER MANAGEMENT



SECOND EDITION



Damon P. Coppola





Contents

Foreword	xi
Acknowledgments	xv
Introduction	xvii
1. The Management of Disasters	1
Introduction	1
Disasters Throughout History	1
The History of Disaster Management	2
Modern Disaster Management—A Four-phase Approach	9
What Is International Disaster Management?	10
Disasters, Poverty, and Development	14
Disaster Trends	18
Definitions	28
Conclusion	32
2. Hazards	37
Introduction	37
Hazard Identification and Hazard Profiling	37
Hazard Analysis	41
The Hazards	46
Conclusion	132
3. Risk and Vulnerability	139
Introduction	139
Two Components of Risk	139
Trends	146
Computing Likelihood and Consequence Values	147
Risk Evaluation	156

Alternatives	167
Vulnerability	176
Conclusion	205
4. Mitigation	209
Introduction	209
What Is Mitigation?	209
Types of Mitigation: Structural and Nonstructural	212
Obstacles to Mitigation	240
Assessing and Selecting Mitigation Options	241
Emergency Response Capacity as a Risk Mitigation Measure	246
Incorporating Mitigation into Development and Relief Projects	247
Conclusion	249
5. Preparedness	251
Introduction	251
Overview of Disaster Preparedness	251
Government Preparedness	252
Public Preparedness	269
The Media as a Public Educator	282
Obstacles to Effective Public Education and Preparedness	284
Conclusion	292
Appendix 5-1 Guidance on Creating a Public Education Campaign for Earthquakes	296
6. Response	305
Introduction	305
What Is Response?	305
Response—The Emergency	306
Recognition—Pre-disaster Actions	306
Recognition—Post-disaster	309
Provision of Water, Food, and Shelter	318
Volunteer Management	344
Coordination	346
Conclusion	351
Appendix 6-1 Sample of a Checklist to be Used for Assessments	353

7. Recovery	377
Introduction	377
Overview of Recovery	377
The Effects of Disasters on Society	378
Pre-disaster Recovery Actions	379
Components of Recovery—What Is Needed, and Where Does It Come From?	381
Types of Recovery	397
Public Assistance	397
Special Considerations in Recovery	408
Conclusion	422
8. Participants: Governmental Disaster Management Agencies	425
Introduction	425
Governmental Emergency Management Structures	426
Emergency Management Participants	426
Organizational Structures	438
Bilateral Disaster Management Assistance	449
How Governments Provide Assistance	455
Types of Bilateral Assistance	456
Types of National Government Agencies Involved in International Disaster Management	462
Conclusion	473
Appendix 8–1	475
9. Participants: Nongovernmental Organizations (Including the Private Sector and Academia)	483
Introduction	483
Who Are the NGOs?	484
What Do They Do?	486
NGO Operations	490
NGO/Military Cooperation	495
Standards of Conduct	502
The Role of the Private Sector	506
The Role of Academia	509
Conclusion	510
Appendix 9–1 Profile of an NGO: The IFRC	511

Appendix 9-2	NGOs Involved in the January 12, 2010, Earthquake in Haiti Response and Recovery Operations as of August 1, 2010	534
Appendix 9-3	Academic and Professional Disaster Management Institutions	544
10.	Participants: Multilateral Organizations and International Financial Institutions	549
	Introduction	549
	The United Nations	550
	UN Agencies and Programs	566
	Regional International Organizations	603
	International Financial Institutions	612
	Conclusion	623
	APPENDIX 10-1 IADB Disaster Risk Management Policy Guidelines	627
11.	Special Considerations	641
	Introduction	641
	Coordination	643
	The Media	644
	Institutional Capacity Development	646
	Political Will	647
	Compound Emergencies	647
	Donor Fatigue	647
	Corruption	648
	State Sovereignty	649
	Equality in Humanitarian Assistance and Relief Distribution	651
	Climate Change and the Environmental Impact of Disasters	653
	Early Warning	654
	Linking Risk Reduction and Development	655
	Differentiating Between Recovery and Development	656
	Terrorism	656
	Global Disasters: SARS, Avian Influenza, Swine Flu, and Other Emerging Epidemics	657
	Conclusion	658
	Index	661