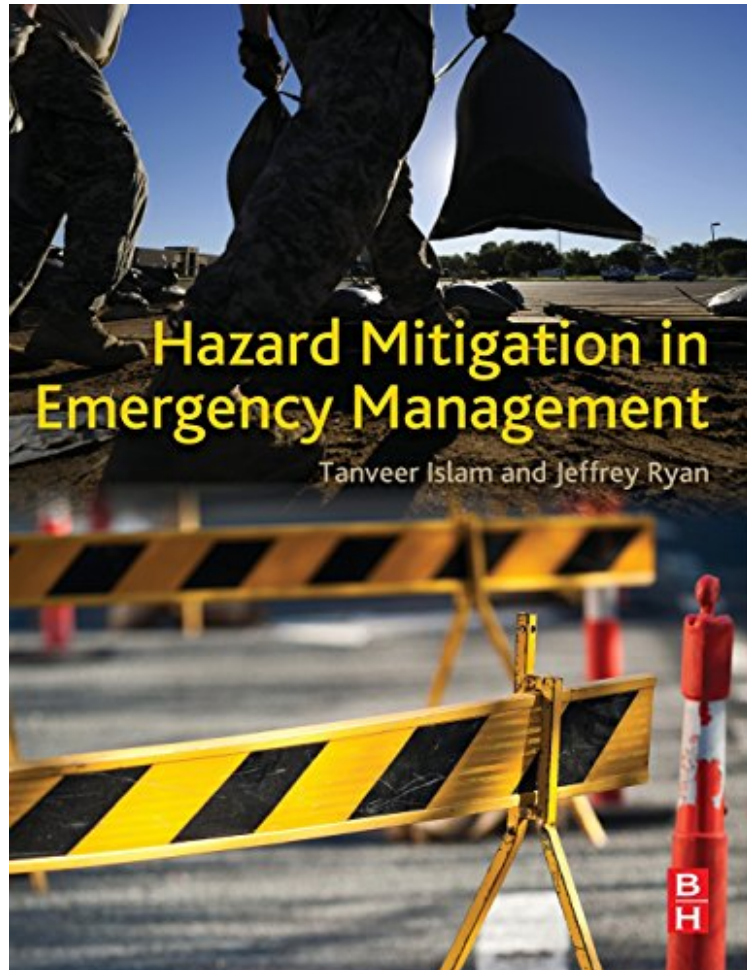


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Hazard Mitigation in Emergency Management

Tanveer Islam, Jeffrey Ryan PhD

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countries around the world.

Hazard Mitigation in Emergency Management introduces readers to mitigation, one of the four foundational phases of emergency management, and to the hazard mitigation planning process. Authors Islam and Ryan review the hazard mitigation framework in both private sector and governmental agencies, covering the regulatory and legal frameworks for mitigation, as well as risk assessment processes and strategies, and tools and techniques that can prevent, or lessen, the impact of disasters. The book specifically addresses hazards posed by human activity, including cyber threats and nuclear accidents, as well as hurricanes, floods, and earthquakes. Readers will learn about the framework for the mitigation process, hazard identification, risk assessment, and the tools and techniques available for mitigation. Coverage includes both GIS and HAZUS, with tutorials on these technologies, as well as case studies of best practices in the United States and around the world. The text is ideal for students, instructors, and practitioners interested in reducing, or eliminating, the effects of disasters. Takes an all-hazards approach, covering terror attacks and accidents, as well as natural disasters. Reviews the hazard mitigation framework in both private sector and governmental agencies, covering the regulatory and legal frameworks for mitigation. Provides a step-by-step process for creating a Hazard Mitigation Plan (HMP). Addresses the needs of local, state, and federal emergency management agencies and of the private sector, including IT mitigation.

About the Author: Tanveer Islam is an Assistant Professor in the Department of Emergency Management at Jacksonville State University, where he teaches hazard mitigation, community resilience and GIS courses. He received a PhD in land use planning from Texas Tech University and did postdoctoral research at Texas A&M marine branch in Galveston and at the National Oceanic and Atmospheric Administration's (NOAA) Environmental Cooperative Science Center. He is also a certified floodplain manager. Mr. Ryan is a retired US Army officer and currently a Professor at Jacksonville State University's Department of Emergency Management within the Institute of Emergency Preparedness. The program provides instruction on various aspects of emergency preparedness with a focus on terrorism, Weapons of Mass Destruction, medical aspects of emergency management, public health preparedness, biodefense, and biosecurity. His research interests are biothreat pathogen detection, agro-terrorism and the role of military forces in disaster response and humanitarian assistance. Since 2003, Professor Ryan has also served as Managing Director of Quetzal Consulting, Inc. a private firm specializing in a wide array of consultative services related to biothreat pathogen detection, tropical diseases research, course development, diagnostics development, marketing and product management. Services are provided to the U.S. Department of Defense, Department of Homeland Security, defense contractors (SAIC, GeoCenters and EAI) and biotechnology and diagnostics companies, among others.