



# Introduction to Transportation Security

By Frances L. Edwards, Daniel C. Goodrich



**Introduction to Transportation Security** By Frances L. Edwards, Daniel C. Goodrich

Transportation is the lifeline of any nation, connecting people, supporting the economy, and facilitating the delivery of vital goods and services. The 9/11 attacks and other attacks on surface transportation assets, including the bombings in Madrid, London, Moscow, and Mumbai demonstrate the vulnerability of the open systems to disruption and the consequences of the attacks on people, property, and the economy. Now more than ever, it has become imperative for businesses operating in the transportation and transit sectors to develop comprehensive security programs accounting for both natural and man-made hazards and safeguarding people, places, and equipment while at the same time ensuring operations continuity. Providing transportation managers with the knowledge, skills, and abilities to effectively manage the security of transportation assets, **Introduction to Transportation Security** examines:

- Basic theories of security and emergency management
- The integrated nature of the nation's critical infrastructure and the threats to transportation in each surface mode
- Federal agencies working in emergency management and transportation security and their intelligence and response requirements and capabilities
- The types of disasters that have occurred in the U.S. and selected nations, and their significant economic impacts
- Cost-beneficial security strategies aimed at preventing catastrophic failures in each transportation mode
- Effective methods for organizing, testing, and evaluating transportation security across modes and professions

The book covers all transportation modes and their interconnectivity including highway, air cargo, freight and passenger rail, transit, and maritime. It presents learning objectives and discussion questions to test assimilation of the material and case studies to facilitate a practical understanding of the concepts.

**Introduction to Transportation Security** provides essential information for students in transportation management programs and professionals charged with safeguarding the movement of assets within our interconnected transportation network.

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#### Review

"Dr. Frances Edwards and Mr. Daniel Goodrich's *Introduction to Transportation Security* provides comprehensive coverage of multimodal surface transportation security threats and strategies. They also present a detailed history and overview of key federal agencies, their origins, evolution, purposes and organizational structures. This book is an excellent and much-needed addition to the transportation security student, researcher, or practitioner's bookshelf."

?Dr. Yuko J. Nakanishi, Chair, ABE40 Committee on Critical Transportation Infrastructure Protection and Principal, Nakanishi Research and Consulting, LLC

"This is an important read for all managers in need of comprehensive reference materials on Transportation Security for all modes. The learning objectives, case studies, summaries, and discussion questions in each chapter keep you focused. This is an invaluable tool for both the student or seasoned professional."

?Herby G. Lissade, P.E., Chief, Office of Emergency Management for the California Department of Transportation – Caltrans, Founder and President of Haiti Engineering

"Individually, Dr. Frances Edwards and Dan Goodrich possess enormous knowledge about transportation security and disaster management protocols. Together, they are a formidable team. Ever since 9/11, Americans have come face-to-face with the disastrous results of an attack on transportation. However, even with ever-tightening security at airports, American transit and other "open" systems remain unacceptably vulnerable, especially to a random "lone wolf" attacker. What are some of the weapons? including chemical and biological? that can be used against transportation systems? What strategies do organized attackers often take? How have these attacks been carried out in other nations? How have they affected the local and national economies? What can be learned from them? In this, their latest book, Edwards and Goodrich deliver their expert insights to a new generation of security professionals who face very different challenges than did those who came before."

?Rod Diridon, Sr., Executive Director, Mineta Transportation Institute

"**Introduction to Transportation Security** is the best textbook I have read on transportation security because it is both comprehensive and interesting. It moves from theory to practice across all modes of transportation ... and addresses a full spectrum of issues associated with transportation security.

**Introduction to Transportation Security** is highly recommended for all introductory homeland security and transportation security courses, and would be an excellent additional text for many emergency management and security management courses."

?Linda Kiltz, *Journal of Homeland Security Education*

"The authors of this book are clearly experts in the field of transportation security, and their well-organized work will help security professionals as well as students learn about the transportation industry, how it affects the overall economy, and how to protect it."

?*Security Management*

## About the Author

**Frances L. Edwards, MUP, Ph.D., CEM**, is the director of the Master of Public Administration program and professor of political science at San Jose State University. She is deputy director of the National Transportation Security Center of the Mineta Transportation Institute at SJSU, where she is also a research associate and teaches emergency management in the Master of Science in Transportation Management program. Her current research is focused on the continuity of operations process and its relationship to emergency management in transportation organizations, climate change and transportation, and transportation security.

Daniel C. Goodrich, MPA, CEM, is a research associate with the Mineta Transportation Institute; an instructor in the Master of Science in Transportation Management program, where he teaches the security for transportation managers course; and a lecturer in the San Jose State University Master of Public Administration program. His current research is focused on the continuity of operations process and its relationship to emergency management in transportation organizations and on transportation security issues, especially related to critical infrastructure protection.

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