



# Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management)

By Paul Schulman, Emery Roe

Download now

Read Online 

**Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management)** By Paul Schulman, Emery Roe

The safe and continued functioning of critical infrastructures—such as electricity, natural gas, transportation, and water—is a social imperative. Yet the complex connections between these systems render them increasingly precarious. Furthermore, though we depend so heavily on interconnected infrastructures, we do not fully understand the risks involved in their failure.

Emery Roe and Paul R. Schulman argue that designs, policies, and laws often overlook the knowledge and experiences of those who manage these systems on the ground—reliability professionals who have vital insights that would be invaluable to planning. To combat this major blind spot, the authors construct a new theoretical perspective that reveals how to make sense of complex interconnected networks and improve reliability through management, regulation, and political leadership. To illustrate their approach in action, they present a multi-year case study of one of the world's most important "infrastructure crossroads," the San Francisco Bay-Delta. *Reliability and Risk* advances our understanding of what it takes to ensure the dependability of the intricate—and sometimes hazardous—systems on which we rely every day.

 [Download Reliability and Risk: The Challenge of Managing In ...pdf](#)

 [Read Online Reliability and Risk: The Challenge of Managing ...pdf](#)

# Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management)

By Paul Schulman, Emery Roe

**Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management)** By Paul Schulman, Emery Roe

The safe and continued functioning of critical infrastructures—such as electricity, natural gas, transportation, and water—is a social imperative. Yet the complex connections between these systems render them increasingly precarious. Furthermore, though we depend so heavily on interconnected infrastructures, we do not fully understand the risks involved in their failure.

Emery Roe and Paul R. Schulman argue that designs, policies, and laws often overlook the knowledge and experiences of those who manage these systems on the ground—reliability professionals who have vital insights that would be invaluable to planning. To combat this major blind spot, the authors construct a new theoretical perspective that reveals how to make sense of complex interconnected networks and improve reliability through management, regulation, and political leadership. To illustrate their approach in action, they present a multi-year case study of one of the world's most important "infrastructure crossroads," the San Francisco Bay-Delta. *Reliability and Risk* advances our understanding of what it takes to ensure the dependability of the intricate—and sometimes hazardous—systems on which we rely every day.

**Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management)** By Paul Schulman, Emery Roe **Bibliography**

- Rank: #860047 in eBooks
- Published on: 2016-04-13
- Released on: 2016-04-13
- Format: Kindle eBook

 [Download Reliability and Risk: The Challenge of Managing In ...pdf](#)

 [Read Online Reliability and Risk: The Challenge of Managing ...pdf](#)

## Download and Read Free Online **Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management)** By Paul Schulman, Emery Roe

---

### Editorial Review

#### Review

"In this important book, Schulman and Roe take us on an eye-opening journey through the hidden difficulties of managing our critical infrastructures. By examining the realities faced by a range of professionals, these two leading thinkers develop a rich and innovative account of the nature of reliability and resilience. Reframing some of our most fundamental assumptions about risk and safety, this book will be of enormous use to practitioners, policymakers, and researchers who seek to understand complex systems." (Carl Macrae *University of Oxford and author of Close Calls: Managing Risk and Resilience in Airline Flight Safety*)

"In this wonderful book, Roe and Schulman sound the alarm: the critical infrastructures on which society depends are at risk. System operators may no longer be able to keep these risks at bay. This book explains in clear prose what we need to understand to keep those critical systems working." (Arjen Boin *Leiden University*)

"This brilliant and provocative analysis translates complex interorganizational dependencies into accessible images and manageable practices. Complexity on this scale has been largely neglected because it is so difficult to register. But that has not deterred Roe and Schulman. Their argument coheres and is strengthened by a consistent focus on managers who bring agency to technical and physical systems. This important book will have enduring impact at a time when reliability and resilience across vulnerable infrastructures is becoming a dominant issue." (Karl E. Weick *co-author of Managing the Unexpected, Third Edition*)

"When critical infrastructures become operational, they come with a degree of risk. Interdependency was not an issue when most of the Delta infrastructure, described in this book, was first constructed. But, it has become a major challenge for the Bay Area. *Reliability and Risk* describes how highly trained professionals have dramatically improved our ability to manage in this new environment, drawing out lessons that will be indispensable for regions around the globe." (Don Boland *California Utilities Emergency Association*)

"This book engages a critical domain with an unusually acute level of empirical and conceptual nuance. It significantly extends the discussion of reliability and risk assessment, issuing strong challenges to practitioners and offering pointed implications for operational and regulatory leaders. An important, demanding work." (Todd R. LaPorte, *University of California Berkeley*)

#### About the Author

**Emery Roe** is Senior Research Associate at University of California, Berkeley's Center for Catastrophic Risk Management. **Paul R. Schulman** is Professor of Government at Mills College and a Senior Research Associate at University of California, Berkeley's Center for Catastrophic Risk Management.

### Users Review

#### From reader reviews:

#### Patricia Glover:

This *Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management)* book is not ordinary book, you have it then the world is in your hands. The benefit you

get by reading this book is information inside this e-book incredible fresh, you will get information which is getting deeper a person read a lot of information you will get. This specific Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management) without we realize teach the one who studying it become critical in thinking and analyzing. Don't be worry Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management) can bring when you are and not make your carrier space or bookshelves' grow to be full because you can have it with your lovely laptop even cellphone. This Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management) having great arrangement in word as well as layout, so you will not truly feel uninterested in reading.

### **Travis Berry:**

Why? Because this Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management) is an unordinary book that the inside of the e-book waiting for you to snap that but latter it will zap you with the secret the idea inside. Reading this book beside it was fantastic author who have write the book in such wonderful way makes the content inside easier to understand, entertaining approach but still convey the meaning completely. So , it is good for you because of not hesitating having this anymore or you going to regret it. This phenomenal book will give you a lot of positive aspects than the other book get such as help improving your ability and your critical thinking technique. So , still want to hesitate having that book? If I ended up you I will go to the e-book store hurriedly.

### **Jack Lacasse:**

You could spend your free time to see this book this book. This Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management) is simple to bring you can read it in the park, in the beach, train in addition to soon. If you did not include much space to bring the particular printed book, you can buy the e-book. It is make you simpler to read it. You can save often the book in your smart phone. So there are a lot of benefits that you will get when one buys this book.

### **Maria Peterson:**

Is it an individual who having spare time in that case spend it whole day by means of watching television programs or just lying down on the bed? Do you need something totally new? This Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management) can be the answer, oh how comes? The new book you know. You are and so out of date, spending your free time by reading in this new era is common not a nerd activity. So what these guides have than the others?

**Download and Read Online Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and**

**Crisis Management) By Paul Schulman, Emery Roe  
#JY6P2IU5V1D**

## **Read Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management) By Paul Schulman, Emery Roe for online ebook**

Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management) By Paul Schulman, Emery Roe Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management) By Paul Schulman, Emery Roe books to read online.

### **Online Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management) By Paul Schulman, Emery Roe ebook PDF download**

**Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management) By Paul Schulman, Emery Roe Doc**

**Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management) By Paul Schulman, Emery Roe Mobipocket**

**Reliability and Risk: The Challenge of Managing Interconnected Infrastructures (High Reliability and Crisis Management) By Paul Schulman, Emery Roe EPub**