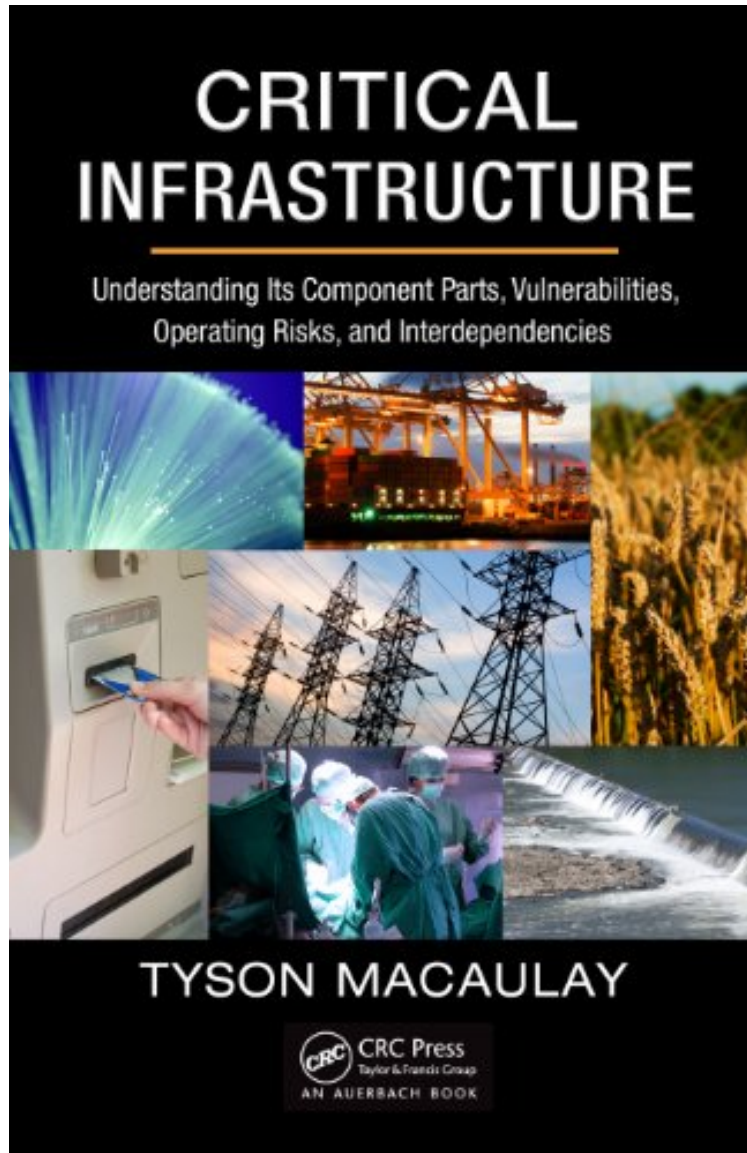


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# Critical Infrastructure: Understanding Its Component Parts, Vulnerabilities, Operating Risks, and Interdependencies

Tyson Macaulay

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## Interdependencies:

Critical Infrastructure (CI) is fundamental to the functioning of a modern economy, and consequently, maintaining CI security is paramount. However, despite all the security technology available for threats and risks to CI, this crucial area often generates more fear than rational discussion. Apprehension unfortunately prompts many involved in CI policy to default to old-fashioned intuition rather than depend on modern concrete risk assessment as the basis for vital security decisions. Going beyond definitions, *Critical Infrastructure: Understanding Its Component Parts, Vulnerabilities, Operating Risks, and Interdependencies* looks at the iron triangle within CI: power, telecom, and finance. It introduces the concept of CI as an industrial and enterprise risk conductor, highlighting the reality that a CI failure can propagate a crisis with far-reaching repercussions. Focuses on Canada and the US Equally for a Useful Cross-Border Security Analysis With \$2.5 trillion at stake in United States; CI alone, supreme standards and metrics are mandatory for solid protection of such a sophisticated and complex area. This powerful volume is dedicated to moving CI security into the 21st century, illustrating the danger in basing critical CI policy decisions on the existing legacy frames of reference. It represents one of the first complete departures from policy, planning, and response strategies based on intuition and anecdotal evidence.

Going beyond definitions, this book looks at all the defined CI sectors and suggests previously overlooked, yet critical, industries for inclusion in revised definitions. Authored by a leading security specialist, this powerful volume includes more than 200 tables and 100 figures that illustrate key concepts, considers all CI sectors for a 360-degree view, and focuses on Canada and the US equally to provide a useful cross-border security analysis. Dedicated to moving CI security into the 21st century, this book illustrates the danger in basing critical CI policy decisions on the existing legacy frames of reference. It represents one of the first complete departures from policy, planning, and response strategies based on intuition and anecdotal evidence. MCEER, May 2010 Macaulay captures the crux of CI — its complex interdependencies — but does so in a clear, concise, and compelling way, providing the fundamentals for approaching CI in a manner familiar to security professionals: risk assessment. The text is extremely well-written. J. Kelly Stewart, Certified Forensic Consultant, writing in *Security Management*, April 2010  
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