



# **Perspectives on Complex Global Challenges: Education, Energy, Healthcare, Security, and Resilience (Stevens Institute Series on Complex Systems and Enterprises)**

*Elisabeth Pate-Cornell, William B. Rouse*

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**Examines current and prospective challenges surrounding global challenges of education, energy, healthcare, security, and resilience**

This book discusses issues in large-scale systems in the United States and around the world. The authors examine the challenges of education, energy, healthcare, national security, and urban resilience. The book covers challenges in education including America's use of educational funds, standardized testing, and the use of classroom technology. On the topic of energy, this book examines debates on climate, the current and future developments of the nuclear power industry, the benefits and cost decline of natural gases, and the promise of renewable energy. The authors also discuss national security, focusing on the issues of nuclear weapons, terrorism and cyber security. Urban resilience is addressed in the context of natural threats such as hurricanes and floods.

- Studies the usage of a globalized benchmark for both student and pedagogical performance
- Covers topics such as surveillance, operational capabilities, movement of resources, and the pros and cons of globalization
- Examines big data, evolving medical methodologies and effects on the medical educational curriculum, and the positive effects of electronic records in healthcare data

*Perspectives on Complex Global Challenges: Education, Energy Healthcare, Security, and Resilience* serves as a reference for government officials, personnel in security, business executives and system engineers.

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