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As a specialist in disaster preparation, you have huge responsibilities: A failure to prepare for natural and human-induced disasters costs lives and money. When a natural or human-induced disaster hits a built-up area the amount of damage it does will depend largely on the extent to which the built assets in the area were developed to withstand it. To fail in this respect is therefore both ethically and financially negligent.

What kinds of structural and non-structural alterations can be made to protect buildings from large-scale disasters?

How can we reduce the threat of these disasters, as well as the damage they cause?

Presenting seven guiding principles, drawn from a broad range of disciplines and approaches, this book tackles the difficult questions about what can be done to attain built-in resilience. With contributions from many renowned experts and upcoming researchers in the fields concerned, it comprehensively assesses the wide range of issues faced by practitioners. Whether you're studying construction management, researching hazard resilience issues or working on construction projects in hazardous regions, this book is for you.

Contents.

1. Introduction: The Need for Built-In Resilience 2. Mainstreaming Disaster Risk Management 3. Construction in Developing Nations: Towards Increased Resilience to Disasters 4. More to Lose: The Case for Prevention, Loans for Strengthening, and One Day 'Safe Housing' Insurance - The Case of Central Vietnam 5. Structural Adaptation in India: Learning Lessons from Tradition 6. Developments in Seismic Design and Retrofit of Structures: Modern Technology Built on 'Ancient Wisdom' 7. Residential Properties in England and Wales: An Evaluation of Repair Strategies Towards Attaining Flood Resilience 8. Public Attitudes to 'Community Based' Small Scale Flood Risk Reduction Measures in England: A Case Study in the Lower Thames Catchment 9. Facing the Future by Designing in Resilience - An Architectural Perspective 10.

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Community-Based Construction for Disaster Risk Reduction 11. Informal Settlements and Natural Hazard Vulnerability in Rapid Growth Cities 12. The Worm in the Bud: Corruption, Construction and Catastrophe 13. Building Resilience by Focusing on Legal and Contractual Frameworks for Disaster Reconstruction 14. The Implications of the Civil Contingencies Act (CCA) 2004 for Engineers in the UK 15. Security Planning in the Resilient City: Stimulating Integrated Emergency Planning and Management 16. 'Planning Ahead': Adapting Settlements Before Disasters Strike 17. Afterword: Integrating Resilience into Construction Practice

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