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Nota di contenuto	Chapter 1. Designing for a Planet in Flux: Architecture, Technology, and

the Future of Climate-Resilient Cities -- Part I. Design Intelligence for Climate-Resilient Architecture and Urban Form -- Chapter 2. Passive and Nature-Based Design Innovations for Climate Resilient Cities: A Systematic Literature Review -- Chapter 3. The Key to Yazd's Resilience: Badgirs and Qanats, Innovative Secrets for Coping with the Arid Climate -- Chapter 4. Geometry-Led Residential Design for Climate Resilience in Hot Semi-Arid Cities: A Case Study of Lahore -- Chapter 5. Aqua Vascular Tower: A Biomimetic Approach to Climate-Resilient Vertical Architecture in Dense Urban Settings -- Chapter 6. Transforming Industrial Heritage into Climate-Resilient Cultural Spaces: Comparative Insights from Coal Drops Yard (UK) and Argo Factory (Iran) -- Chapter 7. Housing Futures: Comparative Strategies for Climate-Resilient Housing in the Global North and South -- Part II. Technological, Infrastructural, and Systemic Pathways to Climate Resilience -- Chapter 8. AI-Enabled Emerging Technologies for High-Performance Building Benchmarking: Balance Energy, Comfort, and Health Resilience -- Chapter 9. Integrating Source-Sink Theory and Road Pavement Solar Collectors for Urban Climate Resilience -- Chapter 10. Potential Strategies for Green Building Technology Adoption: Empirical Insights for Climate-Resilient Urban Development in Construction Sector -- Chapter 11. Furthering a Systemic Approach to Resilience: Planning, Infrastructure, and Applications of Adaptation -- Chapter 12. Designing Resilience in Practice: Lessons, Transitions, and the Future of Climate-Responsive Cities.

Sommario/riassunto

Design Innovation for Climate-Resilient Built Environments offers a multidisciplinary exploration of how the built environment can adapt to and mitigate the impacts of climate change. Bringing together perspectives from architecture, urban design, landscape architecture, urban planning, real estate, and construction management, the book adopts an integrated lens that examines innovation across multiple spatial scales, from cities and regions to streets, buildings, and communities. By bridging these disciplines, it challenges the traditional silos that often shape the planning, design, and management of built environments. The book begins from a simple observation: cities and buildings have always been influenced by climate. Long before the language of climate resilience emerged in contemporary policy debates, societies developed spatial strategies to cope with heat, wind, water, and seasonal variability. Drawing from this long history of environmental adaptation, the book asks how design intelligence can guide architecture and urban form in an era of accelerating climate uncertainty. The first part, "Design Intelligence for Climate-Resilient Architecture and Urban Form," presents resilience as a design mindset shaped by vernacular knowledge, ecological thinking, and contemporary architectural innovation, aiming to create adaptive and responsive built environments. The second part, "Technological, Infrastructural, and Systemic Pathways to Climate Resilience," shifts attention to the systems that enable resilience at scale, exploring how technologies, infrastructures, and planning frameworks support climate-responsive cities. Together, these perspectives position the book as both a conceptual guide and a practical roadmap for advancing climate-resilient design and urban development.
