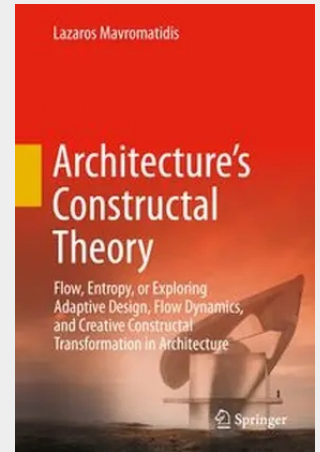


Architecture's Constructal Theory

Flow, Entropy, or Exploring Adaptive Design, Flow Dynamics, and Creative Constructal Transformation in Architecture

This book explores the intersection of fluidity, entropy, climatic heterotopia, and the thermodynamic ontology of space. Rooted in an actantial framework where energy, matter, and spatial transformations interact, it challenges conventional architectural discourse by proposing a vision of design as an irreversible process—one shaped by dynamic environmental forces and systemic flows. The book examines key concepts such as parametric design, material adaptability, and climatic responsiveness which are through the lens of Adrian Bejan's Constructal Law, offering a radical reimagining of architecture's evolving role in the twenty-first century. The author provides a deeper understanding of how spaces can be designed to adapt and evolve dynamically, creating more efficient and sustainable environments. This book serves as both a conceptual manifesto and an inspirational design manual, featuring cutting-edge research, striking architectural graphics, and experimental design methodologies. This book is essential for students, researchers, and practitioners engaged in computational design, sustainable spatial systems, and the future of architectural innovation. It invites readers to explore architecture as a thermodynamically active system, redefining the built environment for a sustainable future.

This book explores the intersection of fluidity, entropy, climatic heterotopia, and the thermodynamic ontology of space. Rooted in an actantial framework where energy, matter, and spatial transformations interact, it challenges conventional architectural discourse by proposing a vision of design as an irreversible process—one shaped by dynamic environmental forces and systemic flows. The book examines key concepts such as parametric design, material adaptability, and climatic responsiveness which are through the lens of Adrian Bejan's Constructal Law, offering a radical reimagining of architecture's evolving role in the twenty-first century. The author provides a deeper understanding of how spaces can be designed to adapt and evolve dynamically, creating more efficient and sustainable environments. This book serves as both a conceptual manifesto and an inspirational design manual, featuring cutting-edge research, striking architectural graphics, and experimental design methodologies. This book is essential for students, researchers, and practitioners engaged in computational design, sustainable spatial systems, and the future of architectural innovation. It invites readers to explore architecture as a thermodynamically active system, redefining the built environment for a sustainable future.



181,89 €

169,99 € (zzgl. MwSt.)

vorbestellbar, Erscheinungstermin ca. Januar 2027

Artikelnummer: 9783032371447
Medium: Buch
ISBN: 978-3-032-37144-7
Verlag: Springer
Erscheinungstermin: 02.01.2027
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2027
Produktform: Gebunden
Seiten: 323
Format (B x H): 155 x 235 mm

