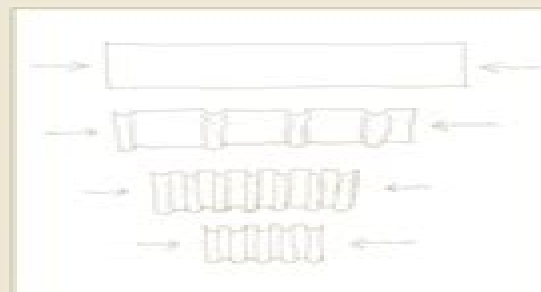
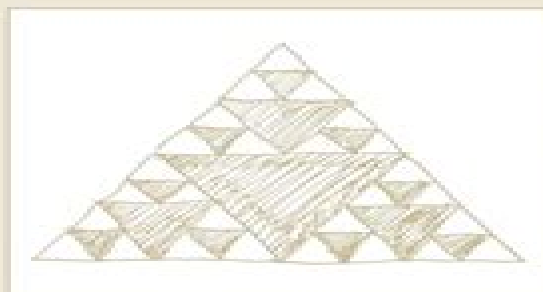
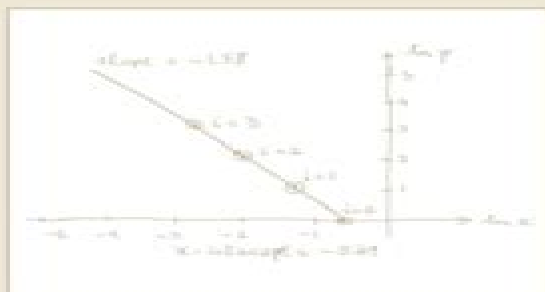
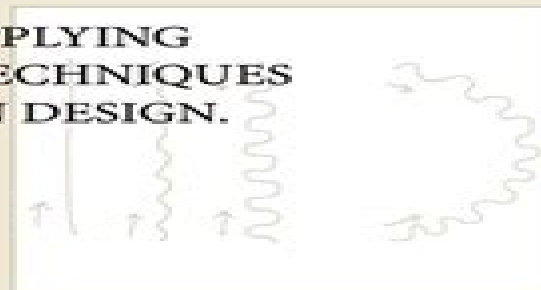
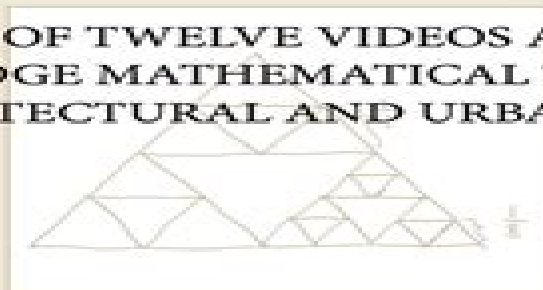
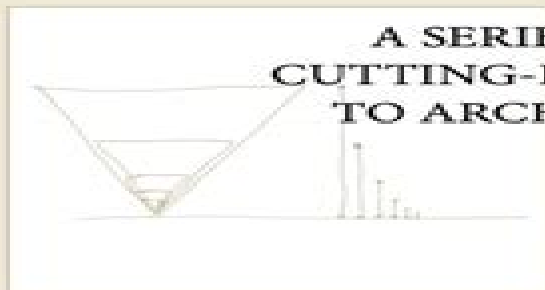


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Algorithmic Sustainable Design: Twelve Lectures on Architecture Nikos A. Salingaros, 2021-03-11 **Twelve Lectures on Architecture** Nikos A. Salingaros, 2010

Twelve Lectures on Architecture is a profound philosophical work presented as a set of architectural lecture notes. It reads very easily explaining why certain buildings and places speak to our hearts thus illuminating many of our old assumptions about taste. Salingaros establishes using biology why traditional architecture is perceived intuitively by most people as more natural and life affirming than modernist architecture. A deep malaise of contemporary society is tied to the shocking state of architecture and urbanism in our times characterized by distorted buildings and unusable urban spaces. Salingaros is the archetypal deep thinker and punctures the pretenses of our most respected architecture critics. He is a charismatic teacher and manages to explain seemingly inaccessible concepts such as fractals, scaling, the golden mean, cellular automata, genetic algorithms and complexity in simple hand drawn sketches. He has found a way to translate the complexities inherent in the design of our environment into imagery that even a general reader can understand. *Twelve Lectures on Architecture* includes an excellent introduction to Christopher Alexander's recent and remarkable work on how biology and architecture intersect in humankind's unconscious perceptions. This book has the importance to change the world because it goes into things that people should have thought about but haven't. What They're Saying With Nikos as our guide we see through the invisibility of the emperor's new clothes and we laugh or cry all the harder at the joke played on mankind by modern architecture. The Providence Journal. Salingaros is a charismatic teacher. The author presents mathematical concepts and computer technologies, fractals, cellular automata, genetic algorithms. He shows us the beauty of mathematics through its usage. Formulating his message through a broad spectrum of topics, Salingaros appears to be a true Renaissance figure. Jadwiga Zarnowiecka, professor and architect, Bialystok, Poland. This book is intended for students yet I think it should be read by everyone who is interested in or works with the built environment. Those who teach urban planning do it for their own ego not for people who are supposed to live there. The result is an architectural object for imaginary people. Cristina Caramelo Gomes, professor and architect, Lisbon, Portugal.

Algorithmic Sustainable Design Nikos Angelos Salingaros, 2013 **Beyond Utopia** Agnes Nyilas, 2018-05-25

Megastructure proposals by the Japanese Metabolism group are commonly identified with the concept of utopia. Beyond this partial understanding, Agnes Nyilas suggests that rather than being merely utopian, the Megastructure of Metabolism represents a uniquely amalgam genre, the myth camouflaged as utopia. Although its Megastructure seemingly describes a desirable future condition as utopia does, it also comprises certain cultural images rooted in the collective unconscious of Japanese people in accordance with the general interpretation of myth. The primary narrative of *Beyond Utopia* thus follows the gradual unfolding of the myth, like characteristics of its Megastructure. Myth is dealt here as an interdisciplinary subject in line with contemporary myth theories. After expounding the mechanism underlying the growing demand for a new myth in architecture, the origin of the

myth Part I discovers the formal characteristics of the Megastructure of Metabolism to give a hint of the real intention behind it Based on this Part II is a reexamination of their design methods which aims to clarify the function of the myth and to suggest the meaning behind it Finally Part III deals with the subject matter of the myth by disclosing the meaning unfolding in the story and suggests a new reading of Metabolism urban theory as an attempt to reconsider the traditional Japanese space concept

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Amoruso, Giuseppe, 2016-04-11 Visual computing and descriptive geometry are multidisciplinary fields addressing the handling of images 3D models and other computer graphics These ideas are experiencing a revival due to emergent technologies and applications available to developers Based in traditional forms of design and architecture these fields are currently experiencing a bounty of new research based on old principles The Handbook of Research on Visual Computing and Emerging Geometrical Design Tools seeks to add to this knowledge base by considering these technologies from a designer's perspective rather than reiterating the principles of computer science It combines aspects of geometry and representation with emerging tools for CAD generation and visualization while addressing the digital heritage of such fields This book is an invaluable resource for developers students of both graphic and computer generated design researchers and designers

Design for a Living Planet Michael Mehaffy and Nikos A. Salingaros, 2017-05-30 In this brief accessible volume the authors an urban philosopher and a mathematician physicist explain the surprising new findings from the sciences that are beginning to transform environmental design in the modern era Authors Michael Mehaffy and Nikos Salingaros explore fractals networks self organization dynamical systems and other revolutionary ideas describing them to non science readers in a direct and engaging way The book also examines fascinating new topics of design including Agile Wiki Design Patterns and other open source approaches from the software world The authors conclude that a profound transformation is under way in modern design and today's students and practitioners will need to be aware of its implications for our future Lucidly describes what's coming in the world of design and what needs to come Ward Cunningham Inventor of wiki and pioneer of Pattern Languages of Programming Agile and Scrum Essential reading for all urban designers Jeff Speck Author of Walkable City Brilliant Charles Montgomery Author of Happy City Inspired compelling and fascinating Recognizes that a true architecture can be dug from the facts insights and theories that occur with a broadening of science to include the human being Christopher Alexander Author of A Pattern Language and Notes on the Synthesis of Form Some comments on the individual chapters Packed with detail and beautiful in presentation Gil Friend Human society must find a path of retreat Salingaros and Mehaffy point the way David Brussat Providence Journal Michael Mehaffy and Nikos Salingaros have written some brilliant articles on how we can co create cities which are truly resilient rather than being engineered resilient Smallworld Urbanism For me this essay was like a flash of insight and I suddenly saw the world in a new light Oeyvind Holmstad Permaliv We've just come across a very thoughtful article by Michael Mehaffy and Nikos Salingaros who draw a

number of lessons from biological systems and use them to draw conclusions about how resilient human systems must be designed Resilient Design Institute Salingaros and Mehaffy take us from the configuration of city spaces to the order of cells in living beings Jaap Dawson Delft Institute of Technology If you wanted to know where the cutting edge was in urban design it is here Patrick J Kennedy CarFreeInBigD This is the single most intelligent and illuminating article I ve seen on Archdaily in 3 years N ming P ngl n Zh China Michael Mehaffy is an urbanist and design theorist and a periodic visiting professor or adjunct in five graduate universities in four countries and three disciplines architecture urban planning and philosophy including the University of Oregon US and the University of Strathclyde UK He has been a close associate of the architect and software pioneer Christopher Alexander and a Research Associate with the Center for Environmental Structure Alexander s research center founded in 1967 He is currently executive director of Portland Oregon based Sustasis Foundation and editor of Sustasis Press Nikos A Salingaros is a mathematician and polymath known for his work on urban theory architectural theory complexity theory and design philosophy He has been a close collaborator of the architect and computer software pioneer Christopher Alexander Salingaros published substantive research on Algebras Mathematical Physics Electromagnetic Fields and Thermonuclear Fusion before turning his attention to Architecture and Urbanism He is Professor of Mathematics at the University of Texas at San Antonio and has been on the Architecture faculties of universities in Italy Mexico and The Netherlands

Proceedings of the 8th International Conference on Construction, Architecture and Technosphere Safety Andrey A. Radionov,Dmitrii V. Ulrikh,Vadim R. Gasiyarov,2024-12-31 This book highlights recent findings in civil and environmental engineering and urban planning and provides an overview of the state of the art in these fields mainly in Russia and Eastern Europe A broad range of topics and issues in modern engineering are discussed including construction buildings and structures advanced materials innovative technology methods and techniques in civil engineering heating gas supply water supply and sewerage foundation engineering BIM structural reliability durability and monitoring special and unique structures construction bridge tunnel road railway engineering design and construction of hydraulic structures concrete engineering urban regeneration and sustainable development urban transport system engineering structure safety and disaster prevention water resources engineering water and wastewater treatment recycling and reuse of wastewater etc The volume gathers selected papers from the 8th International Conference on Construction Architecture and Technosphere Safety ICCATS held in Sochi Russia in September 2024 The authors are experts in various fields of engineering and all papers have been carefully reviewed

Unified Architectural Theory: Form, Language, Complexity Nikos A. Salingaros,2017-06-05

Design Roots Stuart Walker,Martyn Evans,Tom Cassidy,Amy Twigger Holroyd,Jeyon Jung,2018-02-08 Design Roots provides a comprehensive review of culturally significant designs products and practices which are rooted to particular communities through making tradition and a sense of place Many rich traditional practices associated with community tacit knowledge and culture are being rapidly lost due to globalisation and urbanisation Yet they

have much to offer for the future in terms of sustainability identity wellbeing and new opportunities in design This book considers the creative roots the place based ecologies and deep understandings of cultural significance not only in terms of history and tradition but also in terms of locale social interactions innovation and change for the sustainment of culturally significant material productions Importantly these are not locked in time by sentimentality and nostalgia but are evolving innovative and adaptive to new technologies and changing circumstances Contributing authors explore the historical roots of culturally significant designs products and practices emerging directions amateur endeavours enterprise models business opportunities and the changing role and contribution of design in the creation of material cultures of significance meaning and value An international perspective is provided through case studies and research from North and South America Africa Europe Asia and Australasia with examples including Aran jumper production in Northern Ireland weaving in Thailand Iranian housing design Brazilian street design and digital crafting in the United Kingdom Spatial Synthesis Xinyue Ye,Hui Lin,2020-11-30 This book describes how powerful computing technology emerging big and open data sources and theoretical perspectives on spatial synthesis have revolutionized the way in which we investigate social sciences and humanities It summarizes the principles and applications of human centered computing and spatial social science and humanities research thereby providing fundamental information that will help shape future research The book illustrates how big spatiotemporal socioeconomic data facilitate the modelling of individuals economic behavior in space and time and how the outcomes of such models can reveal information about economic trends across spatial scales It describes how spatial social science and humanities research has shifted from a data scarce to a data rich environment The chapters also describe how a powerful analytical framework for identifying space time research gaps and frontiers is fundamental to comparative study of spatiotemporal phenomena and how research topics have evolved from structure and function to dynamic and predictive As such this book provides an interesting read for researchers students and all those interested in computational and spatial social sciences and humanities

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