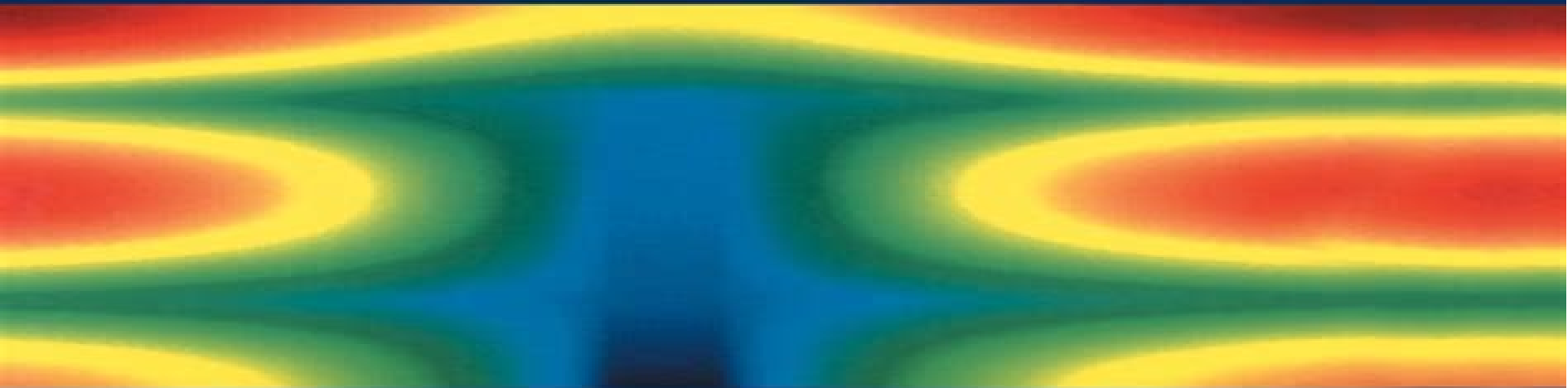


SHAPE AND STRUCTURE,
FROM ENGINEERING
TO NATURE



ADRIAN BEJAN

Shape And Structure From Engineering To Nature

Alphose Zingoni



Shape And Structure From Engineering To Nature:

Shape and Structure, from Engineering to Nature Adrian Bejan, 2000-10-16 Seemingly universal geometric forms unite the flow systems of engineering and nature For example tree shaped flows can be seen in computers lungs dendritic crystals urban street patterns and communication links In this groundbreaking book first published in 2000 Adrian Bejan considers the design and optimization of engineered systems and discovers a deterministic principle of the generation of geometric form in natural systems Shape and structure spring from the struggle for better performance in both engineering and nature This idea is the basis of the new constructal theory the objective and constraints principle used in engineering is the same mechanism from which the geometry in natural flow systems emerges From heat exchangers to river channels the book draws many parallels between the engineered and the natural world Among the topics covered are mechanical structure thermal structure heat trees ducts and rivers turbulent structure and structure in transportation and economics The numerous illustrations examples and homework problems in every chapter make this an ideal text for engineering design courses Its provocative ideas will also appeal to a broad range of readers in engineering natural sciences economics and business

The Physics of Life Adrian Bejan, 2024-07-02 The renowned scientist examines the mysteries of life and evolution through the lens of physics in this riveting and poetic book Kirkus Reviews starred review In *The Physics of Life* Adrien Bejan presents persuasive answers to such profound questions as What is life as physics and Why do life death and evolution happen He argues that the phenomenon of evolution is much broader and older than the evolutionary designs that constitute the biosphere It is rooted in the process of power production and distribution that facilitates all movement on Earth animate or inanimate Breaking down concepts such as desire and power sports health and culture the state of economy water and energy politics and distribution Bejan uses the language of physics to explain how each system works in order to clarify the meaning of evolution in its broadest scientific sense moving the reader towards a better understanding of the world s systems and the natural evolution of cultural and political development This is evolution explained loudly but also elegantly forging a path that flows sustainability

Design in Nature Adrian Bejan, J. Peder Zane, 2013-01-08 In this groundbreaking book Adrian Bejan takes the recurring patterns in nature trees tributaries air passages neural networks and lightning bolts and reveals how a single principle of physics the constructal law accounts for the evolution of these and many other designs in our world Everything from biological life to inanimate systems generates shape and structure and evolves in a sequence of ever improving designs in order to facilitate flow River basins cardiovascular systems and bolts of lightning are very efficient flow systems to move a current of water blood or electricity Likewise the more complex architecture of animals evolve to cover greater distance per unit of useful energy or increase their flow across the land Such designs also appear in human organizations like the hierarchical flowcharts or reporting structures in corporations and political bodies All are governed by the same principle known as the constructal law and configure and reconfigure themselves over time to flow

more efficiently Written in an easy style that achieves clarity without sacrificing complexity Design in Nature is a paradigm shifting book that will fundamentally transform our understanding of the world around us Heat and Mass Transfer Intensification and Shape Optimization Lingai Luo,2013-02-26 Is the heat and mass transfer intensification defined as a new paradigm of process engineering or is it just a common and old idea renamed and given the current taste Where might intensification occur How to achieve intensification How the shape optimization of thermal and fluidic devices leads to intensified heat and mass transfers To answer these questions Heat Mass Transfer Intensification and Shape Optimization A Multi scale Approach clarifies the definition of the intensification by highlighting the potential role of the multi scale structures the specific interfacial area the distribution of driving force the modes of energy supply and the temporal aspects of processes A reflection on the methods of process intensification or heat and mass transfer enhancement in multi scale structures is provided including porous media heat exchangers fluid distributors mixers and reactors A multi scale approach to achieve intensification and shape optimization is developed and clearly explained Providing readers with a tool box of reflections techniques methods supported by literature reviews Heat Mass Transfer Intensification and Shape Optimization A Multi scale Approach will be a key guide for students a teaching aid for lecturers and a source of inspiration for future research subjects The Nature of Motive Force Achintya Kumar Pramanick,2014-08-23 In this monograph Prof Pramanick explicates the law of motive force a fundamental law of nature that can be observed and appreciated as an addition to the existing laws of thermodynamics This unmistakable and remarkable tendency of nature is equally applicable to all other branches of studies He first conceptualized the law of motive force in 1989 when he was an undergraduate student Here he reports various applications of the law in the area of thermodynamics heat transfer fluid mechanics and solid mechanics and shows how it is possible to solve analytically century old unsolved problems through its application This book offers a comprehensive account of the law and its relation to other laws and principles such as the generalized conservation principle variational formulation Fermat s principle Bejan s constructal law entropy generation minimization Bejan s method of intersecting asymptotes and equipartition principle Furthermore the author addresses some interrelated fundamental problems of contemporary interest especially to thermodynamicists by combining analytical methods physical reasoning and the proposed law of motive force This foundational work is a valuable reading for both students and researchers in exact as well as non exact sciences and at the same time a pleasant learning experience for the novice Fin-Shape Thermal Optimization Using Bejan's Constructal Theory Giulio Lorenzini,Simone Moretti,Alessandra Conti,2022-05-31 The book contains research results obtained by applying Bejan s Constructal Theory to the study and therefore the optimization of fins focusing on T shaped and Y shaped ones Heat transfer from finned surfaces is an example of combined heat transfer natural or forced convection on the external parts of the fin and conducting along the fin Fin s heat exchange is rather complex because of variation of both temperature along the fin and convective heat transfer coefficient Furthermore possible

presence of more fins invested by the same fluid flow has to be considered Classical fin theory tried to reduce the coupled heat transfer problem to a one dimensional problem by defining an average temperature of the fin and writing equations using this parameter However it was shown that this approach cannot be used because of the effects of two dimensional heat transfer especially in the presence of short fins CFD codes offer the possibility to consider bi dimensional and more generally three dimensional effects and then a more real approach to the physic phenomena of finned surface s heat exchange A commercial CFD code was used to analyse the case of heat exchange in presence of T shaped fins following an approach suggested by Bejan s Constructal Theory The comparative results showed a significant agreement with previous research taken as a reference and this result allows for the application of this approach to a wider range of systems T shaped optimized fin geometry is the starting point for further research Starting from the optimal results T shape optimized fins we show the trend of the assessment parameter the dimensionless conductance in function of the angle α between the two horizontal arms of the fin A value for a 90

Nature-Inspired Metaheuristic Algorithms for Engineering Optimization Applications Serdar Carbas,Abdurrahim Toktas,Deniz Ustun,2021-03-31 This book engages in an ongoing topic such as the implementation of nature inspired metaheuristic algorithms with a main concentration on optimization problems in different fields of engineering optimization applications The chapters of the book provide concise overviews of various nature inspired metaheuristic algorithms defining their profits in obtaining the optimal solutions of tiresome engineering design problems that cannot be efficiently resolved via conventional mathematical based techniques Thus the chapters report on advanced studies on the applications of not only the traditional but also the contemporary certain nature inspired metaheuristic algorithms to specific engineering optimization problems with single and multi objectives Harmony search artificial bee colony teaching learning based optimization electrostatic discharge grasshopper backtracking search and interactive search are just some of the methods exhibited and consulted step by step in application contexts The book is a perfect guide for graduate students researchers academicians and professionals willing to use metaheuristic algorithms in engineering optimization applications

Applied Physics in the 21st Century Raymond P. Valencia,2010 Applied physics is rooted in the fundamental truths and basic concepts of the physical sciences but is concerned with the utilization of these scientific principles in practical devices and systems This new and important book gathers the latest research from around the globe in this dynamic field

Constructal Human Dynamics, Security and Sustainability Adrian Bejan,2009 Globalization security infrastructure and energy sustainability can be designed based on a scientific principle In this book these objectives are approached based on constructal theory which means to design such projects as global flow architectures that are alive with movement of personnel equipment information education etc Constructal Human Dynamics Security and Sustainability highlights the progress made during the NATO Advanced Research Workshop held in vora Portugal in May 2008 This workshop brought together social scientists with physicists engineers and biologists Together they addressed main topics

such as human dynamics viewed as natural phenomena of design generation flow networks for distribution and collection large scale construction projects e g airports waste storage logistics decontamination energy supply routes distributed energy systems water resources management environmental security sustainability and globalization The chapters selected for this book represent the interdisciplinary approach and team atmosphere that emerged in vora **AIAA Journal** American Institute of Aeronautics and Astronautics,2001 **Freedom and Evolution** Adrian Bejan,2019-12-06 The book begins with familiar designs found all around and inside us such as the trees of river basins human lungs blood and city traffic It then shows how all flow systems are driven by power from natural engines everywhere and how they are endlessly shaped because of freedom Finally Professor Bejan explains how people like everything else that moves on earth are driven by power derived from our engines that consume fuel and food and that our movement dissipates the power completely and changes constantly for greater access economies of scale efficiency innovation and life Written for wide audiences of all ages including readers interested in science patterns in nature similarity and non uniformity history and the future and those just interested in having fun with ideas the book shows how many design change concepts acquire a solid scientific footing and how they exist with the evolution of nature society technology and science The Nature of Order, Book Three: A Vision of A Living World Christopher Alexander,2020-03-30 Christopher Alexander s series of ground breaking books including A Pattern Language and The Timeless Way of Building have pointed to fundamental truths of the way we build revealing what gives life and beauty and true functionality to our buildings and towns Now in The Nature of Order Alexander explores the properties of life itself highlighting a set of well defined structures present in all order and in all life from micro organisms and mountain ranges to good houses and vibrant communities From a practical point of view A Vision of a Living World is the most compelling of the four books Hundreds of photographs and plans of new buildings that have living structure and the processes which gave them life demonstrate for the first time what the concept of living structure can mean in buildings of our time and of the future The really good building The really good space Places that reach an archetypal level of human experience reaching across centuries across continents across cultures across technology across building materials and climates They connect us to ourselves They connect us to our feelings What is more as we study them we realize that they all share a similar geometry How are they made The practical task of making beauty is the principal subject of this volume Hundreds of examples of buildings and places are shown New forms for large buildings public spaces communities neighborhoods lead to discussions about equally important small scale of detail and ornament and colour Many of the examples are built by Alexander and his colleagues other buildings explored take us around the world and through time With these examples lay people architects builders artists and students are able to make this new framework real for themselves understand how it works and understand its significance The book is a feast for the eyes and mind and heart Places created by living process Book 2 have living structure Book 1 and they connect us to our essence as people Book 4 The seven

hundred pictures of Alexander's buildings and works of art shown in this book demonstrate in detail what he means. Taken as a whole, the four books create a sweeping new conception of the nature of things which is both objective and structural, hence part of science and also personal in that it shows how and why things have the power to touch the human heart. A step has been taken through which these two domains, the domain of geometrical structure and the feeling it creates, kept separate during four centuries of scientific thought from 1600 to 2000, have finally been united. The Nature of Order constitutes the backbone of Building Beauty Ecologic Design Construction Process, an initiative aimed at radically reforming architecture education with the emphasis of making as a way to access a transformative vision of the world. The 15 fundamental properties of life guide our work and have given us much more than a set of solutions. The Nature of Order has given us the framework in which we can search and build up our own solutions. In order to be authentically sustainable, buildings and places have to be cared for and loved over generations. Beautiful buildings and places are more likely to be loved and they become more beautiful and loved through the attention given to them over time. Beauty is therefore not a luxury or an option; it includes and transcends technological innovation and is a necessary requirement for a truly sustainable culture.

Design & Nature V Angelo Carpi, C. A. Brebbia, 2010. With the onward march of science and technology and the continuing quest for improvement, there is a growing curiosity about the world around us. Close examination of structures in nature can be rewarding and surprising. Nature has shown an extraordinary capacity to develop dynamic structures and systems over many millions of years, and there is still much to be learnt. Aimed at providing researchers in this subject with fresh impetus and inspiration, this book consists of papers presented at the Fifth International Conference on Design and Nature. The contributions reflect the rich variety of work currently taking place around the world and cover the following topics: Nature and Architecture, Mechanics in Nature, Natural Materials and Processing, Solutions from Nature, Biomimetics, Biomimetics and Bioinspiration, Biocapacity, Education in Design and Nature, and Helical Design in Nature.

Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications Alphose Zingoni, 2019-08-21. Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications comprises 411 papers that were presented at SEMC 2019, the Seventh International Conference on Structural Engineering, Mechanics and Computation, held in Cape Town, South Africa, from 2 to 4 September 2019. The subject matter reflects the broad scope of SEMC conferences and covers a wide variety of engineering materials, both traditional and innovative, and many types of structures. The many topics featured in these Proceedings can be classified into six broad categories that deal with: i) the mechanics of materials and fluids, elasticity, plasticity, flow through porous media, fluid dynamics, fracture, fatigue, damage, delamination, corrosion, bond creep, shrinkage, etc.; ii) the mechanics of structures and systems, structural dynamics, vibration, seismic response, soil structure interaction, fluid structure interaction, response to blast and impact, response to fire, structural stability, buckling, collapse behaviour; iii) the numerical modelling and experimental testing of materials and structures, numerical methods.

simulation techniques multi scale modelling computational modelling laboratory testing field testing experimental measurements iv innovations and special structures nanostructures adaptive structures smart structures composite structures bio inspired structures shell structures membranes space structures lightweight structures long span structures tall buildings wind turbines etc v design in traditional engineering materials steel concrete steel concrete composite aluminium masonry timber glass vi the process of structural engineering conceptualisation planning analysis design optimization construction assembly manufacture testing maintenance monitoring assessment repair strengthening retrofitting decommissioning The SEMC 2019 Proceedings will be of interest to civil structural mechanical marine and aerospace engineers Researchers developers practitioners and academics in these disciplines will find them useful Two versions of the papers are available Short versions intended to be concise but self contained summaries of the full papers are in this printed book The full versions of the papers are in the e book **Form Follows Nature** Rudolf Finsterwalder,2015-08-31 No detailed description available for Form Follows Nature **Essays on the Nature of Art** Eliot Deutsch,1996-11-01 In this newest book the author presents a theory of art which is at once universal in its general conception and historically grounded in its attention to aesthetic practices in diverse cultures The author argues that especially today art not only enjoys a special kind of autonomy but also has important social and political responsibilities Deutsch posits that an art work has as its intentionality the striving to be aesthetically forceful meaningful and beautiful with each of these dimensions culturally situated Working from traditional imitation and expression theories he argues that the manner of an artwork s coming into being and one s experience of it constitutes an integral whole Selected aspects of painting poetry dance architecture films and music are offered to deepen an understanding of the concepts presented Also included are several inter connected themes focusing on the difficult and controversial issues of interpreting art truth in art and the relations between art and morality and art and religion **Shape, Structure And Pattern Recognition** Horst Bunke,Alfred Bruckstein,D Dori,1995-06-29 The book is an extensive compilation of the papers presented at the IAPR International Workshop on Structural and Syntactic Pattern Recognition SSPR 94 It includes a preface by Professor Herbert Freeman who is the recipient of the IAPR King Sun Fu Award for 1994 The book is divided into four parts and covers state of the art topics related to a variety of aspects of pattern recognition *Geometry of Engineering Drawing* George Jüssen Hood,1926 Cold Hibernated Elastic Memory Structure Witold M. Sokolowski,2018-12-07 Cold hibernated elastic memory CHEM is an innovative smart material technology that uses shape memory polymers in open cellular structures This book extensively describes CHEM self deployable structures provides basic property data and characteristics discusses advantages and identifies numerous space commercial and medical applications Some of these applications have been experimentally and analytically investigated with inspiring results and are revealed here CHEM technology has a potential to provide groundbreaking self deployable space structures Some cutting edge space CHEM concepts described in this book

represent the introduction of a new generation of space deployable structures CHEM materials have unique characteristics that enable the manufacture of self deployable stents and other medical devices not possible currently One of the medical applications the CHEM endovascular treatment of aneurysm is being experimentally explored with promising results that would save lives This book provides a long list of interesting potential commercial CHEM applications that could simplify and make life easier at low cost One of these products the self reconfiguring armchair is already being set up for mass production This book will be of interest to all engineering researchers scientists engineers students designers and technologists across their relevant fields of interest The exceptional characteristics of CHEM technology are presently enabling technologists to develop many applications ranging from outer space to inside the human body As a result CHEM structures are in the process of reshaping our thinking approaches and design methods in many ways that conventional materials and approaches do not allow

Nanoscience And Technology: A Collection Of Reviews From Nature Journals Peter Rodgers, 2009-08-21 This book contains 35 review articles on nanoscience and nanotechnology that were first published in Nature Nanotechnology Nature Materials and a number of other Nature journals The articles are all written by leading authorities in their field and cover a wide range of areas in nanoscience and technology from basic research such as single molecule devices and new materials through to applications in for example nanomedicine and data storage

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