

Design with Constructal Theory*

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This paper outlines a new 4½-year undergraduate course on the generation of system configuration (geometry, architecture, and drawing) during the maximization of performance of flow systems. The configuration is free to morph. Real systems are destined to remain imperfect because of finiteness constraints. They are plagued by resistances to the flow of fluid, heat, and electricity. The balancing and distributing of resistances (irreversibility) through the available volume is the mechanism that generates the architecture. The course teaches the generation of configuration, multi-scale and multi-objective hierarchical structures for fluid flow and heat flow, tree-shaped networks for collection and distribution, and strategies for reducing the cost of generating the flow configuration.

Keywords: constructal theory; design; flow; mechanical structures

CONCEPT

IN THIS PAPER we describe the development of an entirely new course on the principle-based generation of flow-system architecture. What is new about this approach is the focus on the principle and method of generating geometry (shape, structure, configuration) for energy systems with flows of fluid, heat, electricity and mass. The course is about design discovery—the maximization of global performance subject to global constraints—in engineered systems and in natural systems as well. We believe that this concept is an ideal mechanism for teaching the connection between engineering and nature, and for demonstrating to the student the real-life importance of core courses (fluid mechanics, heat transfer, thermodynamics) in design. It is also an effective vehicle for reviewing mathematical methods, especially the simplest pencil and paper skills, on which the graduating engineer will have to rely in his or her career.

The approach is based on *constructal theory* [1]—the view that flow configuration (geometry, design) can be reasoned on the basis of a principle of maximization of global flow access in systems that are free to morph under global constraints. The generation of flow configuration is viewed as a phenomenon, and the principle that sums up its repeated occurrence in nature and engineering (the constructal law) is deterministic.

Constructal theory provides a broad coverage of 'design' everywhere, from engineering to geophysics and biology [2]. To see the generality of the method, consider the following metaphor, which

we use to teach in the introductory segment of the course. Imagine the formation of a river drainage basin, which has the function of providing flow access from an area (the plain) to one point (the river mouth). The constructal law calls for a configuration with maximum flow access (minimum global flow resistance). The invocation of this law leads to an optimal balancing of all the internal flow resistance, from the seepage along the hill slopes to the flow along all the channels. Resistances (imperfections) cannot be eliminated. They can be 'matched' neighbor to neighbor, and distributed so that their global effect is minimal and the whole basin is the least imperfect that it can be. The river basin 'morphs' en route to its optimal configuration.

The visible and valuable product of this way of thinking is the *configuration*: the river basin, the tree of cooling channels in a package of electronics, etc. The configuration is the big unknown in design; constructal law draws attention to it as the unknown, and guides our thoughts in the direction of discovering it.

In the river basin example, the configuration that the constructal law recommends is a tree-shaped flow, with balances between highly dissimilar flow resistances such as seepage (Darcy flow) and river channel flow. The 'tree' is the theoretical way of providing maximum access between one point (source, sink) and an infinity of points (area, volume). The tree is a *complex* flow structure, which has multiple length scales that are distributed optimally (hence non-uniformly) over the available area or volume. The tree is 'order out of chaos': the order is the stream flow through the tree channels, and the chaos is the diffusion across the interstices between the smallest tree channels.

* Accepted 6 September 2000.

Design With Constructal Theory Solution Manual

XueTao Cheng



Design With Constructal Theory Solution Manual:

Design with Constructal Theory Adrian Bejan, Sylvie Lorente, 2008-09-09 Design course on the universal principle of configurations in nature and engineering the constructal law Design with Constructal Theory offers a revolutionary new approach based on physics for understanding and predicting the designs that arise in nature and engineering from the tree and the forest to the cooling of electronics urban design decontamination and vascular smart materials This book shows how you can use the method of constructal theory to design human made systems in order to reduce trial and error and increase the system performance First developed in the late 1990s constructal theory holds that flow architecture arises from the natural evolutionary tendency to generate greater flow access in time and in flow configurations that are free to morph It unites flow systems with solid mechanical structures which are viewed as systems for the flow of stresses Constructal theory unites nature with engineering and helps us generate novel designs across the board from high density packages to vascular materials with new functionalities self healing self cooling and from tree shaped heat exchangers to svelte fluid flow and solid structures Design with Constructal Theory starts with basic principles and then shows how these principles are applied to understanding and designing increasingly complex systems Problems and exercises at the end of each chapter give you an opportunity to use constructal theory to solve actual design problems This book is based on a design course developed by the two authors for upper level undergraduates and graduate students at Duke University and other universities all over the world With the authors expert guidance students and professionals in mechanical civil environmental chemical aerospace and biomedical engineering will understand natural systems and then practice design as science by relying on constructal strategies to pursue and discover novel and effective designs Constructal Law and the Unifying Principle of Design Luiz A.O. Rocha, Sylvie Lorente, Adrian Bejan, 2012-12-04 Design happens everywhere whether in animate objects e g dendritic lung structures bacterial colonies and corals inanimate patterns river basins beach slope and dendritic crystals social dynamics pedestrian traffic flows or engineered systems heat dissipation in electronic circuitry This design in nature often takes on remarkably similar patterns which can be explained under one unifying Constructal Law This book explores the unifying power of the Constructal Law and its applications in all domains of design generation and evolution ranging from biology and geophysics to globalization energy sustainability and security The Constructal Law accounts for the universal tendency of flow systems to morph into evolving configurations that provide greater and easier access over time The Constructal Law resolves the many and contradictory ad hoc statements of optimality end design and destiny in nature such as minimum and maximum entropy production and minimum and maximum flow resistance and also explains the designs that are observed and copied in biomimetics Constructal Law and the Unifying Principle of Design covers the fundamentals of Constructal Theory and Design as well as presenting a variety of state of the art applications Experts from the biological physical and social sciences demonstrate the unification of all design phenomena in nature and apply this knowledge to novel

designs in modern engineering such as vascularization for self healing and self cooling materials for aircraft and tree fins and cavities for heat transfer enhancement

Convection Heat Transfer Adrian Bejan, 2004-07-26 This extensive update of a well known and respected title is revised for greater accessibility and to include new cutting edge topics Publisher's description

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Critique of Constructal Theory XueTao Cheng, 2019-09-12 Constructal theory has been extensively used to analyze and optimize many different shapes and structures in both living and non living systems It is generally considered to be a law that could govern the evolutions of shapes and structures in biology physics technology and social organization Accordingly it seems that the constructal method is suitable for designing and analyzing all kinds of shapes and structures in the world However in most cases the details for its applications were not carefully checked meaning that it was often incorrectly applied and that many unreasonable or inaccurate results were provided This book systematically reviews and checks the applications of constructal theory in street design economics heat transfer optimization flow systems and explanations of natural structures and social phenomena Every detail of the models methods optimizations applications results and conclusions is analysed with careful consideration of theoretical derivations and typical examples Accordingly the problems and mistakes in the applications of the theory are directly pointed out and discussed in detail The abuse and limitation of the constructal approach are also discussed In many cases it is shown that the theory has significant flaws and is even not applicable in certain circumstances As constructal theory is widely used in the analysis and design of shapes and structures this book will be essential for scientists researchers engineers teachers postgraduates and undergraduates in the fields of structure analysis design and optimization in physics biology flow dynamics heat transfer and thermodynamics

Structural Design in Architecture Mario Salvadori, 1981 Solutions Manual: Elementary Theory of Structures Yuan-yu Hsieh, 2004

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