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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.

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Constructal design grew as a new hierarchical (multi-scale) method for maximizing the access between one point (source or sink) and an infinity of points (volume or area). Flows of several types were considered (e.g. fluid, heat, electricity, and traffic).

Design with Constructal Theory*

04-08-2014 · Solution Manual Design with Constructal Theory (Adrian Bejan & Sylvie Lorente) Solution Manual Shape and Structure, from Engineering to Nature (Adrian Bejan) Solution Manual Thermodynamics : Concepts and Applications (Stephen Turns) Solution Manual Experimental Methods for Engineers (8th Ed., Jack P. Holman) Constructal theory is now a fast growing field with con-tributions from many sources, and with leads in many direc- tions.

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Constructal theory enables a heat transfer system to evolve and generate to provide a better flow access for the currents that flow through it. Taking a complex function composed of hot spot temperature and pumping power as the performance indicator, the diameter of cooling channels and the aspect ratio of elemental body are optimized as two degrees-of-freedom.

Constructal design and experimental validation of a non ...

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Design with Constructal Theory by Adrian Bejan

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The two sides of the constructal law: we predict the occurrence of design in nature, and we design devices for human use. The constructal law puts forth the idea that the generation of design (configuration, pattern, geometry) in nature is a physics phenomenon that unites all animate and inanimate systems, and that this phenomenon is covered by the Constructal Law.

Constructal theory : definition of Constructal theory and ...

This article communicates a new problem and solution: Fluid is initially motionless in a rectangular space the shape of which is free to vary. A blade enters along one of the sides of the rectangle, moves at constant speed, and sets the fluid in motion by viscous diffusion. If the constructal law of design evolution is invoked, then the evolutionary direction is toward the shape of the rectangular space such that the entire fluid is set in laminar flow more easily, during the shortest time.