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“For a finite-size system to persist in time (to live), it must evolve in such a way that it provides easier access to the imposed currents that flow through it. ”

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Adrian Bejan is a Romanian-
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Solutions thermodynamics and developed what he calls the constructal law. He is J. A. Jones Distinguished Professor of Mechanical Engineering at Duke University and author of the books The Physics of Life: The Evolution of Everything and Freedom and

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Adrian Bejan - Wikipedia
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Adrian Bejan was awarded the 2018 Benjamin Franklin Medal for "Thermodynamics and constructal theory, which predicts natural

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Solutions design and its evolution in engineering, scientific, and social systems". He received all his degrees from the Massachusetts Institute of Technology (B.S.1971, M.S.1972, Ph.D.1975).

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The constructal law was stated by Adrian Bejan in 1996 as follows:

“ For a finite-size system to persist in time (to live), it must evolve in such a way that it provides easier access to the imposed currents that flow through it. ” [3][4][5].

“ Constructal law ” was coined by

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Bejan to describe the natural tendency of flow systems (e.g. rivers, trees and branches [6], and engineered forms[7]) to generate and evolve structures that increase flow access [3][8].

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Other books by Adrian Bejan:
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3. Solution. Use scale analysis []
and note that the fluid movement
has two time scales. The initial
time scale belongs to the
horizontal movement of the blade,

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(1) $t_L \sim L/V$ This is the time needed by the blade to touch the volume completely. The subsequent time scale refers to the spreading of horizontal movement from the blade into the motionless fluid above.

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Adrian Bejan was awarded the Benjamin Franklin Medal for “Thermodynamics and constructal theory, which predicts natural design and its evolution in engineering, scientific, and social

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solutions". He earned all his degrees at the Massachusetts Institute of Technology: B.S. (1971, Honors Course), M.S. (1972, Honors Course), and Ph.D. (1975).

Freedom and Evolution: Hierarchy

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ADRIAN BEJAN, PhD, is the J. A. Jones Professor of Mechanical Engineering at Duke University. An internationally recognized authority on heat transfer and thermodynamics, Bejan has pioneered the methods of entropy

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