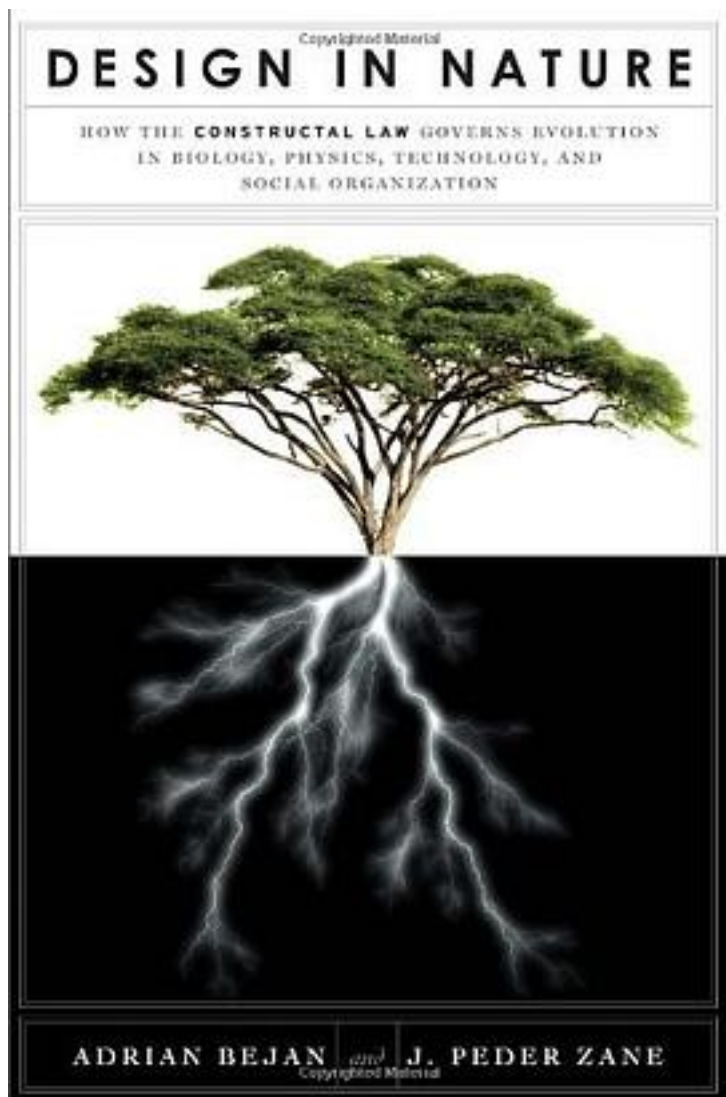


# Design in Nature



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著者:Adrian Bejan

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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 all 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.

作者介绍:

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标签

科普

设计

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思维

flow

美国

理论

数学

评论

:无

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这种有机生态观的设计理论，还是很玄妙的。。但是，城市的确是个很奇妙的生命体，各种流的运动都需要借助城市空间得以实现，如何让这些流的运动最经济就应该是当代规划师们该思考的问题了。20，30年代起步,机械主义至上的现代主义建筑运动的那一套在城市规划上早就不适用了。。可惜，在现在的中国还比比皆是。。

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书评

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