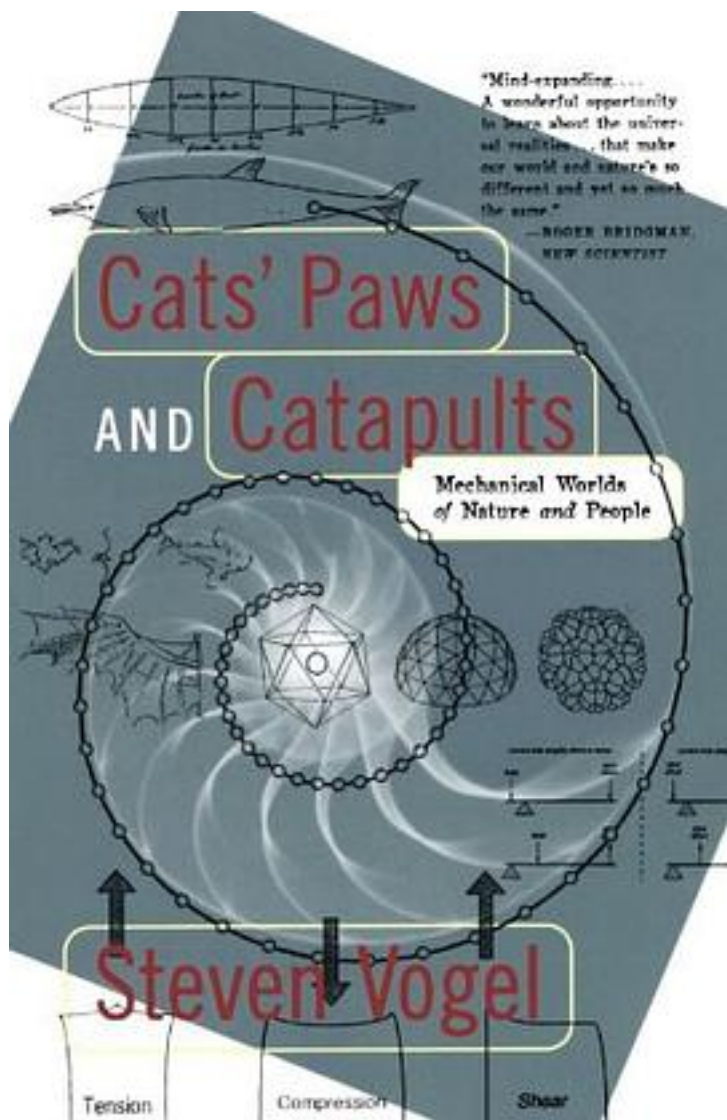


Cats' Paws and Catapults



[Cats' Paws and Catapults_ 下载链接1](#)

著者:Steven Vogel

出版者:W. W. Norton & Company

出版时间:2000-1-17

装帧:Paperback

isbn:9780393319903

Nature and humans build their devices with the same earthly materials and use them in the same air and water, pulled by the same gravity. Why, then, do their designs diverge so sharply? Humans, for instance, love right angles, while nature's angles are rarely right and usually rounded. Our technology goes around on wheels-and on rotating pulleys, gears, shafts, and cams-yet in nature only the tiny propellers of bacteria spin as true wheels. Our hinges turn because hard parts slide around each other, whereas nature's hinges (a rabbit's ear, for example) more often swing by bending flexible materials. In this marvelously surprising, witty book, Steven Vogel compares these two mechanical worlds, introduces the reader to his field of biomechanics, and explains how the nexus of physical law, size, and convenience of construction determine the designs of both people and nature. "This elegant comparison of human and biological technology will forever change the way you look at each." -Michael LaBarbera, American Scientist

作者介绍:

目录:

[Cats' Paws and Catapults_ 下载链接1](#)

标签

科學

2009讀

评论

新穎的問問題的方法

[Cats' Paws and Catapults_ 下载链接1](#)

[Cats' Paws and Catapults_下载链接1](#)