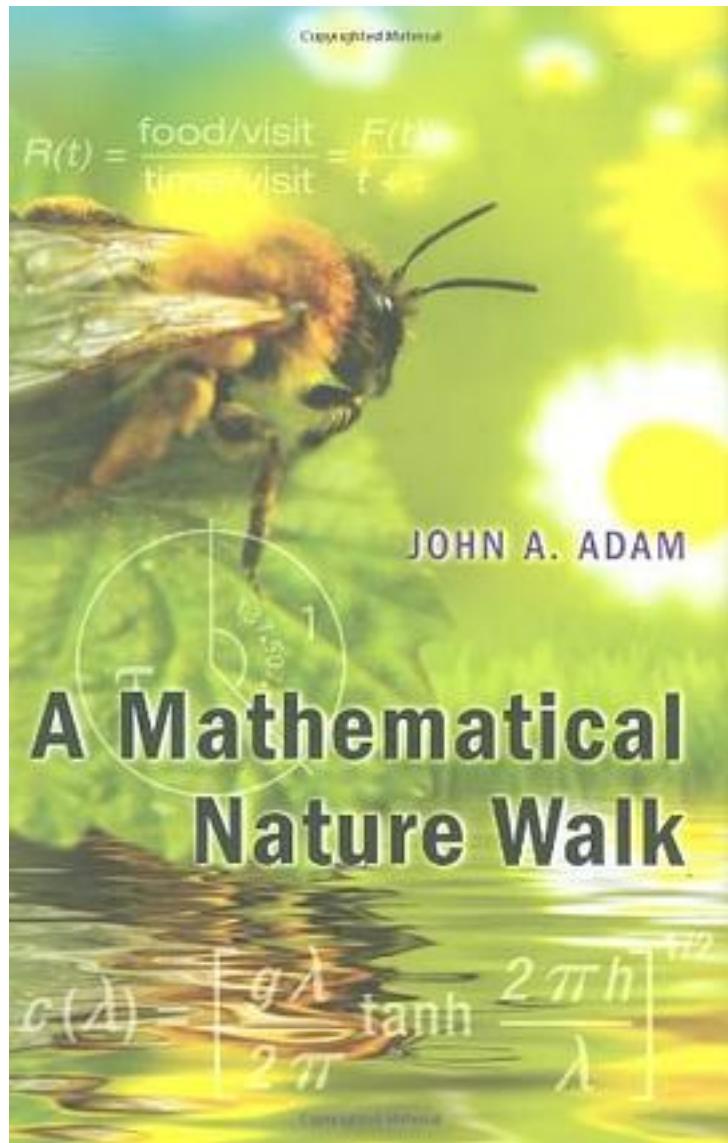


A Mathematical Nature Walk



[A Mathematical Nature Walk](#) [下载链接1](#)

著者:John A. Adam

出版者:Princeton University Press

出版时间:2009-5-10

装帧:Hardcover

isbn:9780691128955

How heavy is that cloud? Why can you see farther in rain than in fog? Why are the droplets on that spider web spaced apart so evenly? If you have ever asked questions like these while outdoors, and wondered how you might figure out the answers, this is a book for you. An entertaining and informative collection of fascinating puzzles from the natural world around us, "A Mathematical Nature Walk" will delight anyone who loves nature or math or both. John Adam presents ninety-six questions about many common natural phenomena - and a few uncommon ones - and then shows how to answer them using mostly basic mathematics. Can you weigh a pumpkin just by carefully looking at it? Why can you see farther in rain than in fog? What causes the variations in the colors of butterfly wings, bird feathers, and oil slicks? And why are large haystacks prone to spontaneous combustion? These are just a few of the questions you'll find inside. Many of the problems are illustrated with photos and drawings, and the book also has answers, a glossary of terms, and a list of some of the patterns found in nature. About a quarter of the questions can be answered with arithmetic, and many of the rest require only precalculus. But regardless of math background, readers will learn from the informal descriptions of the problems and gain a new appreciation of the beauty of nature and the mathematics that lies behind it.

作者介绍:

目录:

[A Mathematical Nature Walk 下载链接1](#)

标签

数学

MathematicalBiology

BiologyEcology

评论

[A Mathematical Nature Walk 下载链接1](#)

书评

[A Mathematical Nature Walk 下载链接1](#)