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Chance in Biology: Using Probability to Explore Nature

By Denny, Mark And Steven Gaines

Princeton University Press, 2002. Softcover. Book Condition: New. Second Printing. This specific softcover book is in new condition and has a cover free from blemishes and scuffing with sharp corners and edges. The pages are clean, crisp, unmarked and uncreased. We package all books in custom cardboard book boxes for shipment and ship daily with tracking numbers.; "Life is a chancy proposition: from the movement of molecules to the age at which we die, chance plays a key role in the natural world. Traditionally, biologists have viewed the inevitable "noise" of life as an unfortunate complication. The authors of this book, however, treat random processes as a benefit. In this introduction to chance in biology, Mark Denny and Steven Gaines help readers to apply the probability theory needed to make sense of chance events--using examples from ocean waves to spiderwebs, in fields ranging from molecular mechanics to evolution. Through the application of probability theory, Denny and Gaines make predictions about how plants and animals work in a stochastic universe. Is it possible to pack a variety of ion channels into a cell membrane and have each operate at near-peak flow? Why are our arteries rubbery? The concept of a...



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