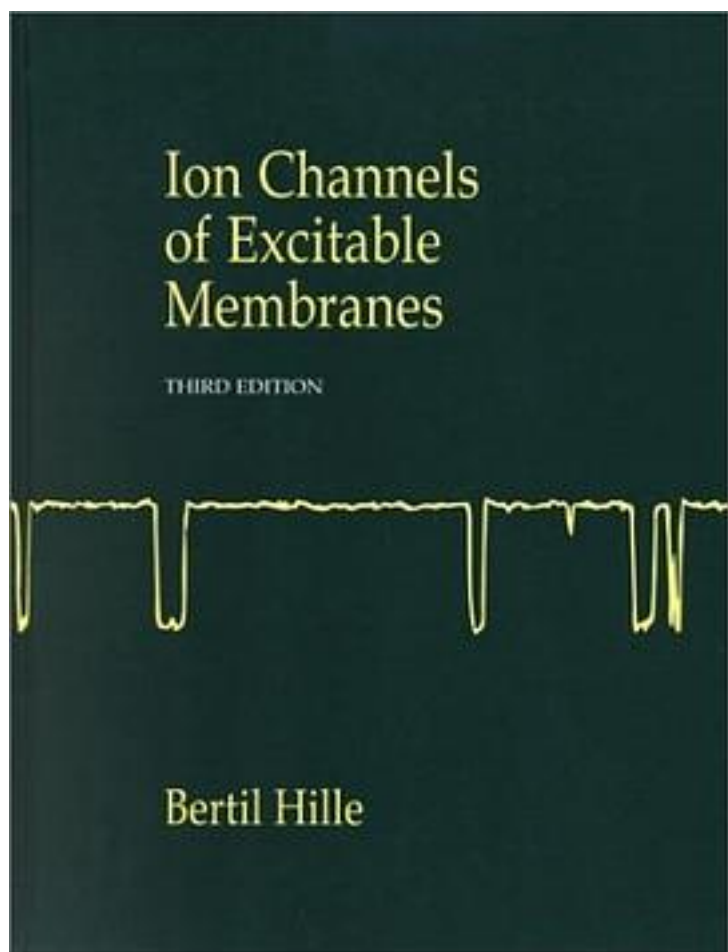


Ion Channels of Excitable Membranes



[Ion Channels of Excitable Membranes_下载链接1](#)

著者:Bertil Hille

出版者:Sinauer Associates

出版时间:2001-07-01

装帧:Hardcover

isbn:9780878933211

Ion channels underlie a broad range of the most basic biological processes, from excitation and signaling to secretion and absorption. Like enzymes, they are diverse and ubiquitous macromolecular catalysts with high substrate specificity and subject to

strong regulation. This fully revised and expanded Third Edition of Ion Channels of Excitable Membranes describes the known channels and their physiological functions, then develops the conceptual background needed to understand their architecture and molecular mechanisms of operation. It includes new chapters on calcium signaling, structural biology, and molecular biology and genomics. Ion Channels of Excitable Membranes begins with the classical biophysical work of Hodgkin and Huxley, continues with the roles of channels in cellular signaling, then develops the physical and molecular principles needed for explaining permeation, gating, pharmacological modification, and molecular diversity, and ends with a discussion of channel evolution. Ion Channels of Excitable Membranes is written to be accessible and interesting to life scientists and physical scientists of all kinds. It introduces all the concepts that a graduate student should be aware of but is also effective in advanced undergraduate courses. It has long been the recognized authoritative overview of this field used by all neuroscientists.

作者介绍:

目录:

[Ion Channels of Excitable Membranes_ 下载链接1](#)

标签

Neuroscience

Ion

神经科学

目前读过的最经典的电生理教材

channel

Neurology

textbook

评论

业内圣经。学术书本来懒得po豆瓣，但老是看不完po一下敦促敦促自己！

The classical one for basic knowledge of ion channels.

导师带着读了一半了。前九章的生物学例子很经典值得背诵。第十章的经典电化学理论深入浅出，适合新手。希望今年能够读完第一遍。在博士后时期再读一遍。

科学严谨，富于启发性，绝对经典！

[Ion Channels of Excitable Membranes 下载链接1](#)

书评

[Ion Channels of Excitable Membranes 下载链接1](#)