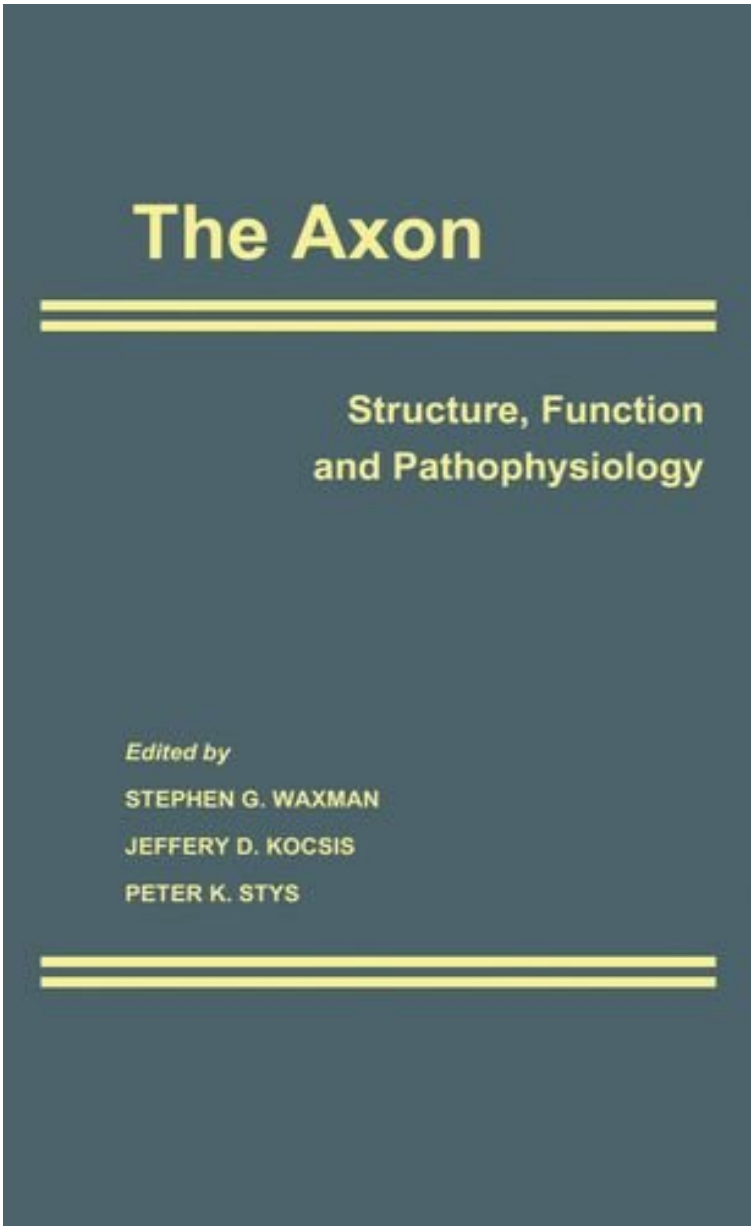
The Axon: Structure, Function and Pathophysiology

From Oxford University Press
*ebooks | Download PDF | *ePub | DOC | audiobook*



#5257473 in Books 1995-03-30Original language:EnglishPDF # 1 11.31 x 1.60 x 8.94l, 5.02 #File Name: 0195082931692 pages | File size: 47.Mb

From Oxford University Press : The Axon: Structure, Function and Pathophysiology before purchasing it in order to gage whether or not it would be worth my time, and all praised The Axon: Structure, Function and Pathophysiology:

The axon, interposed between the cell body and the synaptic terminals in most neurons, plays a crucial role in connecting neurons and acting as a conduit for the transmission of information between them. This book provides a comprehensive and up-to-date compendium that brings together chapters on the structure, function, and pathophysiology of axons in both the PNS and CNS. Carefully written, well-illustrated with superb illustrations, and generously referenced, the 33 chapters and introduction have been authored by 49 world-renowned authorities. Recent advances in the molecular neurobiology of axons are carefully reviewed, and new areas, such as the molecular biology of ion channels and myelination, the role of calcium in pathophysiology and regeneration, cell adhesion molecules and their roles in axo-glial interactions and axonal guidance, and optical recording methods, are highlighted. This book will provide an essential reference for neuroscientists as well as clinicians such as neurologists, neurosurgeons, and clinical electrophysiologists interested in axons.

"A very nice compendium of current information about axonal histological structure, physiology and pathophysiology. There is an 'all star' cast of authors."--Canadian Journal of Neurological Sciences"The Axon: Structure, Function and Pathophysiology is an excellent addition to the field of axon physiology and pathophysiology. The book is well written and topics are thoroughly covered in a fashion suitable for both basic and clinical neuroscientists. The high-quality illustrations andphotomicrographs and the succinct figure legends make it easy for readers to find and understand key points this book should become an important reference for people seeking a better understanding of axon biology."--New England Journal of Medicine"The illustrations are outstanding....The photomicrographs of nerves are the best that I have seen....The chapters are heavily referenced, with almost all having citations of articles from 1994 and even, in a chapter or two, 1995. This is unusual and remarkable. The authors have produced anencyclopedic reference book with material that is almost as up-to-date as a journal article....Waxman, Kocsis and Stys have edited an excellent reference volume that is up-to-date and extremely well illustrated. This is the sort of book that should be a standard in neurology and neurosurgerydepartment libraries regardless of academic orientation. For departments of ophthamology and otolaryngology, this book is also a must."--Journal of the American Medical AssociationNoted, not reviewed, in Doody's Journal"An impressive book....with elegant descriptions....There are many stunning freeze-fracture and electron micrographs....The breadth of this book will improve knowledge about the axon for both basic and clinical scientists.This is to be welcomed."--Trends in NeurosciencesAbout the AuthorStephen G. Waxman is at Yale University. Jeffery D. Kocsis is at Yale University.