



# Computational Neuroscience: Simulated Demyelinating Neuropathies and Neuronopathies

*Diana Ivanova Stephanova, Bozhidar Dimitrov Kolev*

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**Computational Neuroscience: Simulated Demyelinating Neuropathies and Neuronopathies** Diana Ivanova Stephanova, Bozhidar Dimitrov Kolev

This book covers the computer simulation of demyelinating neuropathies and neuronopathies and compares models with clinical findings. Through the approximation of nerve excitation and conduction, the authors show how the versatile structure of nerve fibers relates to different modes of focal prospects, inward and outward currents, conduction velocity, and errant transmission. They also explain how mathematical models elucidate emerging fine distinctions between hereditary and acquired neuronal diseases, including Charcot-Marie-Tooth, chronic inflammatory demyelinating polyneuropathy, Guillain-Barre syndrome, multifocal motor neuropathy, and amyotrophic lateral sclerosis.

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