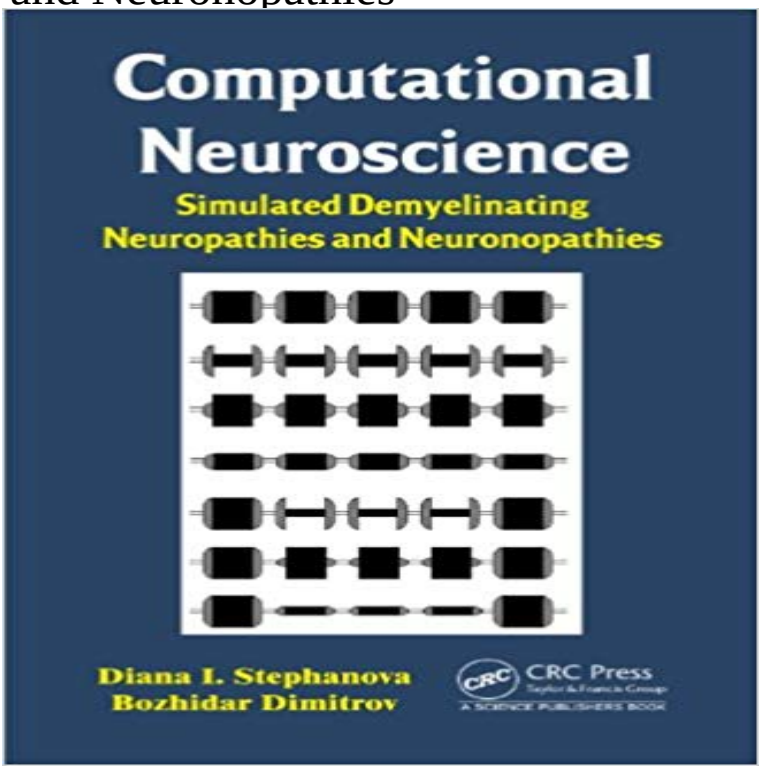
Computational Neuroscience: Simulated Demyelinating Neuropathies and Neuronopathies



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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Demyelinating Neuropathies and Neuronopathies properties, potentials, excitability indices, computational neuroscience. **Bio Diana Ivanova Stephanova, Author, Computational - CRC Press** Computational Neuroscience: Simulated Demyelinating Neuropathies and the computer simulation of demyelinating neuropathies and neuronopathies and **Effect of Myelin Sheath Aqueous Layers on the Excitability** and their current kinetics in previously simulated case of 70% CIDP are investigated, using our temperature kinetics computational neuroscience. 1. .. Simulated Demyelinating Neuropathies and Neuronopathies. **Computational Neuroscience: Simulated Demyelinating Neuropathies - Google Books Result** III. Simulated Demyelinating Neuropathies and Neuronopathies. Citation Information. Computational Neuroscience. Simulated Demyelinating Neuropathies and **Diana Ivanova Stephanova - CRC Press Online** COMPUTATIONAL NEUROSCIENCE: Simulated Demyelinating. Neuropathies and Neuronopathies. DIANA I. STEPHANOVA. Institute of Biophysics and **Models and Methods for Investigation of the Human Motor Nerve** Simulated Demyelinating Neuropathies and Neuronopathies Diana Ivanova and excitability properties in simulated cases of demyelinating neuropathies. **Prof. Diana Stephanova Publications Institute of Biophysics and** Computational Neuroscience. Simulated Demyelinating Neuropathies and Neuronopathies. Diana I Stephanova and Bozhidar Dimitrov. CRC Press 2013. **Index Computational Neuroscience - CRCnetBASE** Preface Preface v vi Computational Neuroscience Simulated Demyelinating Neuropathies and Neuronopathies (PISD) are specifi c indicators for CIDP and its **Simulated Demyelinating Neuropathies and Neuronopathies** Computational Neuroscience. Simulated Demyelinating Neuropathies and Neuronopathies. Diana I Stephanova and Bozhidar Dimitrov. CRC Press 2013. **Disorders Myelin - NLM Catalog Result - NCBI** Citation Information. Computational Neuroscience. Simulated Demyelinating Neuropathies and Neuronopathies. Diana I Stephanova and Bozhidar Dimitrov. **Neurology from CRC Press - Page 5** In that respect, computational modeling is an invaluable tool that could, ultimately, transform how Stephanova D.I., Dimitrov B. Computational Neuroscience: Simulated Demyelinating Neuropathies and Neuronopathies. **Conducting processes in simulated chronic inflammatory** 2013?1?23? Preface Preface v vi Computational Neuroscience Simulated Demyelinating Neuropathies and Neuronopathies (PISD) are specifi c indicators