



Design of Efficient and Safe Neural Stimulators: A Multidisciplinary Approach (Analog Circuits and Signal Processing)

Marijn van Dongen, Wouter Serdijn

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This book discusses the design of neural stimulator systems which are used for the treatment of a wide variety of brain disorders such as Parkinson's, depression and tinnitus. Whereas many existing books treating neural stimulation focus on one particular design aspect, such as the electrical design of the stimulator, this book uses a multidisciplinary approach: by combining the fields of neuroscience, electrophysiology and electrical engineering a thorough understanding of the complete neural stimulation chain is created (from the stimulation IC down to the neural cell). This multidisciplinary approach enables readers to gain new insights into stimulator design, while context is provided by presenting innovative design examples.

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