



# Microelectrode Recording in Movement Disorder Surgery

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**Microelectrode Recording in Movement Disorder Surgery** From Thieme Georg Verlag

As movement disorder surgery advances and becomes more commonplace, the need for accurate physiological localizing data- optimally achieved through extracellular microelectrode recording- is more critical than ever. However, this complex technique carries a high learning curve and most neurosurgeons have little training in the field.

Here is the first book to provide a comprehensive overview of the art of microelectrode recording in movement disorders surgery, offering a solid understanding of the basics, as well as much useful clinical information for experienced practitioners.

Key features:

- Examines the scientific basis and background of microrecording, types of results one can expect, controversies, avenues for research, and probable directions for future development
- Valuable "how-to-get-started" guide to commercial systems
- Clearly details principles and techniques for data analysis, signal processing and pattern recognition, target selection, and other critical issues
- All topics have been evaluated and reviewed by leading experts in the field

Tackling all important points in microelectrode recording, this book will sharpen your knowledge of the science and clinical application of the increasingly important

technique. For neurosurgeons, neurologists, and neurophysiologists undertaking complex movement disorder procedures, this book is a must.

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### Editorial Review

#### Review

'This book is a welcome addition...it is a must for any department undertaking movement disorder surgery.' - -Acta Neurochirurgica An extremely valuable guide to the technique of microelectrode recording. Written by well known experts, it provides information on all aspects, and can be used by either novices to get an introduction to the field or for practitioners who want to consider a fine point...nicely balanced...I highly recommend this book to everyone dealing with movement disorder surgery, either to read from cover to cover or to have on the shelf as a reference. --European Neurology

#### From the Back Cover

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#### About the Author

Department of Neurological Surgery, School of Medicine, Oregon Health & Science University, Portland, OR, USA

### Users Review

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##### **James Horowitz:**

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**Lena Stubbs:**

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**Jack Caldwell:**

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