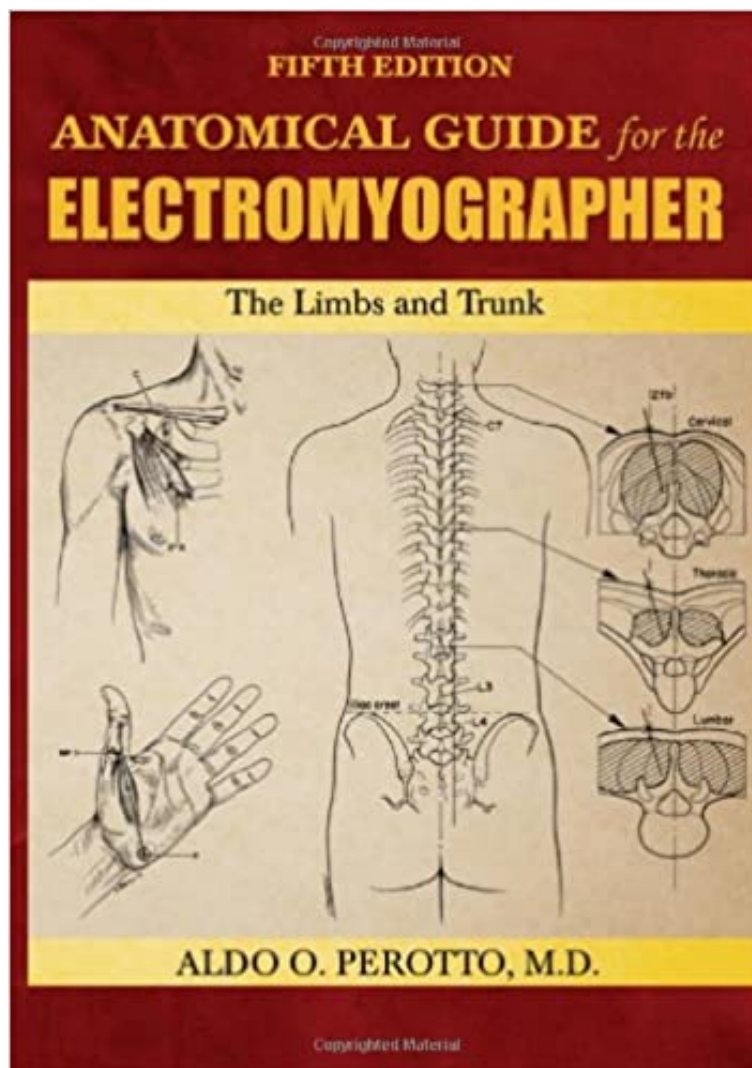


# Anatomical Guide for the Electromyographer: The Limbs and Trunk

by

Thomas Edward Gass



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## **Synopsis**

This invaluable book for the electromyographer dispenses the latest techniques detailing methods of intramuscular electrode placement. The author examines the basic principles in electromyography (EMG) and includes updated information for the appendicular and axial muscles. It is divided into 14 sections organized by anatomical region: the muscles of the hand, forearm, arm, shoulder girdle, foot, leg, thigh, pelvis, hip joint, perineal region, paraspinal region, abdominal wall, the intercostals and diaphragm regions, along with the muscles innervated by cranial nerves. This information includes the innervations and attachments of each muscle, how to position the patient for examination, the appropriate site for insertion of the electrode, the depth of insertion for the electrode, and the action that the patient should perform to activate the muscle. The descriptions of the techniques used for rarely examined muscles are sufficient for a clinician to have the confidence needed to perform the procedure. Common errors in electrode placement and clinically relevant comments are illustrated and discussed, including cross-sectional illustrations on the appendicular muscles. A particularly useful inclusion is 'Pitfalls' that describes which muscle the electrode will record if the needle is placed too deep, not deep enough, or not at the location described. The text contains a useful appendix, providing dermatomes of the limb and trunk, cutaneous innervations of the head, and excellent illustrations of both the brachial plexus and the lumbosacralcoccygeal plexus. The appendix also contains a useful table listing all muscles that are presented in the text with innervations from the peripheral nerve to the mixed spinal nerve root. Well organized, clearly and concisely written, this book remains a learning tool and excellent reference for electromyographers and for healthcare practitioners who are expanding their practice skills to include diagnostic EMG, as well as for graduate students who use EMG as part of their research.

## **Sort review**

The first textbook for biomedical engineering courses in medical device design and instrumentation. Comprehensive and self-contained, the book introduces all necessary math (from Junior level calculus) and theory, and is also supported by a rich pedagogy and an extensive range of supporting tutorial and lab based projects. About the Author Dr. Baura received her BS Electrical Engineering degree from Loyola Marymount University, her MS Electrical Engineering and MS Biomedical Engineering degrees from Drexel University, and her PhD Bioengineering degree from the University of Washington. Between her graduate degrees, she worked as a loop transmission systems engineer at AT&T Bell Laboratories. She then spent 13 years in the medical device industry conducting medical device research and managing research and product development at several companies. She holds 20 U.S. patents. In her last industry position, Dr. Baura was Vice President, Research and Chief Scientist at CardioDynamics. In 2006, she returned to academia as a Professor of Medical Devices at Keck

Graduate Institute of Applied Life Sciences, which is one of the Claremont Colleges. Throughout her career, Dr. Baura has championed engineering curriculum excellence. She has written four engineering textbooks, three of which are medical device textbooks. She is an ABET Engineering Accreditation Commissioner. In her new position as Director of Engineering Science at Loyola, she is constructing a general engineering curriculum that incorporates substantial industry input and prepares new engineering graduates for positions in the medical device, semiconductor, and wastewater treatment industries.

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## What people say about this book

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john, "The delivery was bit late...but im happy as the book is great. Excellent book, well

presented and easy reference...would recommend”

The book by Thomas Edward Gass has a rating of 5 out of 4.8. 72 people have provided feedback.

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