



# Electrodermal Activity

By Wolfram Boucsein



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Electrodermal activity is one of the most frequently used psychophysiological evaluations in psychology research. Based on the 1992 edition of this work *Electrodermal Activity* covers advances in the field since the first publication in 1992. The current volume includes updated information on brain imaging techniques such as PET and fMRI, which provide further insight into the brain mechanisms underlying EDA. In addition, this volume is able to describe more reliably hypotheses that have been successfully tested since the first publication.

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### Editorial Review

#### Review

Invaluable...There is no doubt that the book fills an important gap' in the literature and that Boucsein has taken on a mammoth task to upt all this knowledge in a user friendly format...I really enjoyed reading this book.' Biological Psychology

#### From the Back Cover

Electrodermal Activity, Second Edition

Wolfram Boucsein

From EEG technology to the polygraph, psychophysiology has become part of mainstream science, encompassing a number of subspecialties. In particular, the study of electrodermal activity (EDA)?the activation of sweat glands in the skin in response to stress or other stimuli?has given psychologists many useful applications over a variety of settings. Increased scholarly interest in EDA has brought with it a wealth of improvements in recording, analyzing, and applying data?and a need to make this knowledge available in a readable, practice-oriented format.

The Second Edition of *Electrodermal Activity* brings together research from biology, psychology, and physics for a comprehensive understanding of the subject and its potential across mental health and medical disciplines. As in the original volume, the reader is given a thorough grounding in electrodermal phenomena: the anatomy and physiology of the electrodermal system, the biophysics of measurement, and the history of the field. From there, the book incorporates two decades' worth of new knowledge, not just on innovative measurement and analytic techniques but also in the area of applications, with new or completely rewritten chapters on the use of EDA in:

- Decision-making.
- Human-computer interaction.
- Neurological diseases and brain lesions.
- Anxiety, depression, psychopathy, and schizophrenia.
- Detection of deception.
- Biofeedback, product evaluation, and more.

Retaining the breadth and depth of information that made the original a bedrock text, this Second Edition of *Electrodermal Activity* is imminently useful to clinical psychologists, psychophysicists, and forensic psychologists alike.

#### About the Author

Wolfram Boucsein is professor of physiological psychology at the University of Wuppertal, Germany. He received his training both in psychology and physiology and obtained his Ph. D. in psychology at the University of Giessen, Germany in 1971. Afterwards, he held various positions as research assistant, senior lecturer and associate professor, before he was appointed as full professor at the Wuppertal University in 1982. He has co-edited several books and published more than 150 papers in psychophysiology, clinical psychology, applied psychology and in fields overlapping with medicine. His current research interests are in using central and autonomic nervous system recordings in the study of emotions and information processing,

in the modeling of neurophysiological systems for arousal and emotion, and in applying psychophysiological methods to adaptive automation and product testing.

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