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Nota di contenuto	Intro -- Contents -- PART I. GENERAL ELEMENTS OF PSYCHOPHYSIOLOGY -- 1. Psychophysiology -- Short History and Long Past -- 2. Neurons and Muscles: The Sources of Psychophysiological Recordings -- Organization of the Nervous System -- Function of Nerve and Muscle Cells -- Bioelectric Potentials -- 3. Equipment Used in Psychophysiological Recording -- Electrodes and Transducers -- Polygraphs -- Computers -- 4. Psychophysiological Recordings -- Spontaneous Responses -- Tonic Activity -- Phasic Activity -- 5. Some Basic Principles of Psychophysiology -- Arousal and Habituation -- Orienting, Defensive, and Startle Responses -- Homeostasis and Autonomic Balance -- Law of Initial Values -- Stimulus-Response Specificity and Individual Response Stereotypy -- 6. Safety and Ethics in

a Psychophysiology Laboratory -- Safety -- Additional Safety Principles -- Ethical Considerations -- PART II. PSYCHOPHYSIOLOGY OF SPECIFIC ORGANS AND SYSTEMS -- 7. Brain: Electroencephalography and Imaging -- Spontaneous EEGs -- Event-Related Potentials -- Brain Imaging Techniques -- 8. Muscles: Electromyography -- Physiological Basis -- Recording Procedure -- Typical Recordings -- Common Problems -- Analysis and Quantification -- 9. Eyes: Pupillography and Electrooculography -- Pupillography -- Eye Movements -- Electrooculography -- 10. Respiratory System -- Physiological Basis -- Recording Procedures -- Typical Recording -- Analysis and Quantification -- 11. Gastrointestinal Motility: Electrogastrography -- Physiological Basis -- Recording Procedure -- Typical Recordings -- Common Problems -- Analysis and Quantification -- 12. Cardiovascular System: Heart Rate -- Cardiac Output -- and Blood Pressure, Volume, and Flow -- Physiological Basis -- Heart Rate or Heart Period -- Cardiac Output -- Blood Pressure -- Blood Volume and Flow -- 13. Skin: Electrodermal Activity. Terminology -- Physiological Basis -- Skin Conductance -- Skin Potential -- 14. Signal Processing -- Assessing Basal Activity -- Assessing Change -- Assessing Global Aspects of Physiological Signals -- PART III. APPLICATIONS -- 15. Applications of Psychophysiological Recording -- Five Categories of Psychophysiological Studies -- Conclusions -- Glossary -- A -- B -- C -- D -- E -- F -- G -- H -- I -- J -- K -- L -- M -- N -- O -- P -- R -- S -- T -- V -- W -- Index -- A -- B -- C -- D -- E -- F -- G -- H -- I -- J -- K -- L -- M -- N -- O -- P -- Q -- R -- S -- T -- U -- V -- W.

Sommario/riassunto

PART I. GENERAL ELEMENTS OF PSYCHOPHYSIOLOGY. 1. Psychophysiology. 2. Neurons and Muscles: The Sources of Psychophysiological Recordings. 3. Equipment Used in Psychophysiological Recording. 4. Psychophysiological Recordings. 5. Some Basic Principles of Psychophysiology. 6. Safety and Ethics in a Psychophysiology Laboratory. PART II. PSYCHOPHYSIOLOGY OF SPECIFIC ORGANS. 7. Brain: Electroencephalography and Imaging. 8. Muscles: Electromyography. 9. Eyes: Pupillography and Electrooculography. 10. Respiratory System. 11. Gastrointestinal Motility: Electrogastrography. 12. Cardiovascular System: Heart Rate; Cardiac Output; and Blood Pressure, Volume, and Flow. 13. Skin: Electrodermal Activity. 14. Signal Processing. PART III. APPLICATIONS. 15. Applications of Psychophysiological Recording. Glossary. Index.
