



Contents

Contributors *vii*

Introduction: Organizing the Tools and Methods of Affective Science 3
James A. Coan and John J. B. Allen

I Emotion Elicitation

- 1 Emotion Elicitation Using Films 9
Jonathan Rottenberg, Rebecca D. Ray, and James J. Gross
- 2 The International Affective Picture System (IAPS) in the Study of Emotion and Attention 29
Margaret M. Bradley and Peter J. Lang
- 3 The Directed Facial Action Task: Emotional Responses Without Appraisal 47
Paul Ekman
- 4 Emotional Behaviors as Emotional Stimuli 54
James D. Laird and Sarah Strout
- 5 Probing Unconscious Emotional Processes: On Becoming a Successful Masketeer 65
Stefan Wiens and Arne Öhman
- 6 Social Psychological Methods of Emotion Elicitation 97
Eddie Harmon-Jones, David M. Amodio, and Leah R. Zinner
- 7 Emotion Elicitation Using Dyadic Interaction Tasks 106
Nicole A. Roberts, Jeanne L. Tsai, and James A. Coan
- 8 Combining Music With Thought to Change Mood 124
Eric Eich, Joycelin T. W. Ng, Dawn Macaulay, Alexandra D. Percy, and Irina Grebneva
- 9 Emotion Elicited by Primary Reinforcers and Following Stimulus-Reinforcement Association Learning 137
Edmund T. Rolls

- 10 Emotion Elicitation With Neurological Patients 158
Robert W. Levenson

II Emotion Assessment

- 11 Assessing Positive and Negative Affect via Self-Report 171
Elizabeth K. Gray and David Watson
- 12 The Information-Processing Approach to Emotion Research 184
Edward Wilson, Colin MacLeod, and Lynlee Campbell
- 13 Observer-Based Measurement of Facial Expression With the Facial Action Coding System 203
Jeffrey F. Cohn, Zara Ambadar, and Paul Ekman
- 14 Use of Automated Facial Image Analysis for Measurement of Emotion Expression 222
Jeffrey F. Cohn and Takeo Kanade
- 15 Measuring Emotion-Related Vocal Acoustics 239
Michael J. Owren and Jo-Anne Bachorowski
- 16 The Specific Affect Coding System (SPAFF) 267
James A. Coan and John M. Gottman
- 17 Continuous Measurement of Emotion: The Affect Rating Dial 286
Anna Marie Ruef and Robert W. Levenson
- 18 Assessing Understanding and Appraisals During Emotional Experience: The Development and Use of the Narcoder 298
Nancy L. Stein and Marc W. Hernandez
- 19 The Time Sampling Diary (TSD) of Emotional Experience in Everyday Life Situations 318
Hermann Brandstätter
- 20 Methodological Considerations in the Study of Emotion Across Cultures 332
David Matsumoto and Seung Hee Yoo
- 21 Considerations in Studying Emotion in Infants and Children 349
Heather A. Henderson and Nathan A. Fox
- 22 Conceptual, Theoretical, and Methodological Issues in Inferring Subjective Emotion Experience: Recommendations for Researchers 361
Lis Nielsen and Alfred W. Kaszniak

III Methods for Understanding the Biological Bases of Emotion

- 23 Studying Emotion in Animals: Methods, Materials, and Training 379
Lisa A. Parr and Katalin M. Gothard
- 24 The Psychophysiological Laboratory 398
John J. Curtin, David L. Lozano, and John J. B. Allen
- 25 Investigating Human Emotion With Lesions and Intracranial Recording 426
Ralph Adolphs
- 26 Functional Magnetic Resonance Imaging and the Study of Emotion 440
Catherine J. Norris, James A. Coan, and Tom Johnstone
- Name Index 461
- Subject Index 475