Psychology of Emotion

Second Edition

Paula M. Niedenthal and François Ric



Contents

	Acknowledgements How to Use This Book	x xi
1	Theories of Emotion 2 Theories of Emotion 3 Evolutionary Theories 5 Causes of Emotion: Adaptive Challenges and Opportunities 5 Biological Givens: Basic Emotions 6 The Integration of Experience: Affect Programs 9 Appraisal Theories 10 Causes of Emotion: Specific Appraisal Patterns 11 Biological Givens: Valence and Novelty Appraisals 12 The Integration of Experience: Independent Components 13 Psychological Constructionism 14 Causes of Emotion: Categorizing Affect Responses 15 Biological Givens: Core Affect 16 The Integration of Experience 17 Summary 18	1
2	Methods for the Science of Emotion Manipulating Emotions 27 Ethical Guidelines 27 Affective Images—The International Affective Picture System 28 Recall of Emotional Memories 29 Films 29 Music 30 Scripted Social Interaction 31 Naturally Occurring Emotions 33 Induction Methods Are Not All the Same 34 Measuring Emotions 35 Questionnaires 36 Facial Expression 37 Central Nervous System 39	26

V1	Content	6

	Peripheral Nervous System 41	
	Assessment Methods Are Not All the Same 43	
	Summary 44	
_		
3	The Emotional Brain	49
	The Peripheral Nervous System 50	
	The Central Nervous System 50	
	Neurotransmitters 51	
	Models of the Emotional Brain 52	
	Historical Models 52	
	Contemporary Models 53	
	Shared Representations for Emotion Perception and Production 62	
	Mirror Neurons and Emotions 62	
	The Neurochemistry of Emotions 64	
	Summary 66	
4	Even d'anna d'Even d'ann	70
4	Functions of Emotion	72
	How to Know That Emotions Are Functional 73	
	Consequences of Emotion Deficits 73	
	Benefits of Emotional Intelligence 74	
	Survival Function of Emotion for the Individual 74	
	Physiology 74	
	Polyvagal Theory 75	
	Emotions and Goal Adjustment 76	
	The Broaden-and-Build Theory of Positive Emotions 77	
	Communication Function of Emotion for the Dyad 80	
	Function of Features of Facial Expressions 80	
	Facial Expressions as Behavior Regulators 81	
	Functions of Smiles in Dyadic Interaction 82	
	Social Functional Theories 83	
	Social Coordination Function for the Group 85	
	Group Formation 86	
	Bringing Group Members Back into Line 87	
	Group Governance 87	
	Collective Action 88	
	Summary 90	
5	Expression of Emotion	98
	The Mechanics of Facial Expressions 99	70
	Origin of Facial Expressions 101	
	Evolution and Function of Facial Expressions 101	
	The Question of Cultural Universality 104	
	What Facial Expressions Convey: Emotion Readout Versus Social	
	Motivations 106	
	Facial Expressions Influence the Experience and Perception of Emotions 108	
	Finbodied Simulation and Fination Percention 109	

	Beyond the Face: Other Components of Emotion Expression 111 Bodily Expression of Emotion 111 Exercises in the Vision 113	
	Emotion in the Voice 113	
	Combining Emotion Expression Components in Context 115 Summary 116	
	Summay 110	
6	Self-Conscious Emotions	124
	Defining Self-Conscious Emotions 125	
	Cognitive Achievements Underlying Self-Conscious Emotions 125	
	Self-Evaluative Emotions 126	
	Guilt and Shame 127	
	Embarrassment 129	
	Pride and Hubris 132	
	Social Comparison Emotions 134	
	Envy 134	
	Jealousy 135	
	Summary 142	
7	Happiness	149
,	What Is Happiness? 150	149
	What Does Happiness Do? 152	
	How Does Happiness Do That? 153	
	Do You Really Know What Makes You Happy? 153	
	Affective Forecasting 154	
	Impact Bias 155	
	Memory Bias 155	
	Hedonic Adaptation 157	
	Social Comparison 158	
	Cutting Up the Happiness Pie 158	
	Biology 159	
	Life Circumstances 159	
	Daily Life 159	
	Behaviors That Increase Happiness 160	
	Gratitude 160	
	Savoring 161	
	Mindfulness 161	
	Positive Relationships 162	
	Generosity and Helping 163	
	Optimism and Defensive Pessimism 164	
	Summary 166	
o	Emotion and Comition	170
8	Emotion and Cognition Mostel Pergeometrics of Emotion Viscolindae, 172	172
	Mental Representation of Emotion Knowledge 173	
	Emotion Shapes Perception 176	
	Emotional Objects Capture Attention 177	
	Emotion Influences the Scope of Attention 178	

	Emotion-Congruent Word and Face Processing 179	
	Emotion Influences Memory 180	
	Memory for Emotional Events 180	
	Mood-Congruent Memory 183	
	Mood-State–Dependent Memory 184	
	Judgment and Decision Making 184	
	Emotion and Judgment 185	
	Emotion and Decision Making 189	
	Summary 191	
0		100
9	Emotion Regulation	198
	Motives for Regulating Emotions 199	
	Emotion Regulation Strategies 200	
	Antecedent-Focused Regulation Strategies 201	
	Response-Focused Strategies 202	
	Cognitive Reappraisal 202	
	Suppression of Expressive Behavior 204	
	Comparing Reappraisal and Expressive Suppression 204	
	Cognitive Consequences of Expressive Suppression	
	and Cognitive Reappraisal 204	
	Social Consequences of Expressive Suppression	
	and Cognitive Reappraisal 205	
	Emotional Thought Suppression 207	
	Rebound of Suppressed Thoughts 207	
	Emotional Rebound 209	
	Social Sharing of Emotions 210	
	Social Sharing and Emotional Recovery 210	
	Assimilation and Accommodation 211	
	Emotion Regulation and Health 213	
	Cultural and Individual Differences 214	
	Summary 215	
10	Emotion and Group Processes	222
	Group Emotions 223	
	Emotional Contagion 224	
	Explanations of Emotional Contagion 226	
	Emotion on Behalf of a Group 231	
	Emotions about Other Groups 233	
	Emotion as the Basis of Prejudice 233	
	Emotion and Intergroup Behavior 234	
	Models of Emotions and Intergroup Behavior 235	
	Intergroup Contact and Emotions 238	
	Summary 240	
11	Gender and Emotion	247
	Stereotypes of Men's and Women's Emotions 248	- 17
	2 1	

Emotion-Specific Stereotypes 249

Context-Specific Stereotypes 250	
Prescriptive Norms 251	
Emotional Behavior of Men and Women 252	
Emotional Experience 253	
Emotional Expressiveness 254	
Emotion Competences 255	
Sending and Reading Facial Expressions 256	
Emotion Knowledge 257	
Emotion Regulation 257	
Neural Underpinnings of Emotion 258	
Origins of Gender Differences in Emotion 259	
Stereotypes Create Differences 259	
Socialization of Emotion 261	
Social Roles 262	
Emotion, Gender, and Culture 263	
Intersectionality 264	
Summary 266	
Universals and Cultural Differences in Emotions	272
A Brief History of Cross-Cultural Studies of Emotion 273	
Looking for Similarities 274	
Expression of Emotion in Movement and Music 274	
Bodily Feelings of Emotion 275	
Looking for Difference 277	
Emotional Expression Dialects 277	
Expressiveness of Northerners and Southerners 279	
Antecedent Events 280	
Appraisals 280	
Culture and Cultural Difference 281	
Culture Constructs 281	
Social-Orientation Expectations 281	
Religious Values: Dialetical vs. Optimizing Doctrines of Positive	
Emotions 287	
Social-Ecological Factors: Historical Homogeneity-Heterogeneity 290	
Summary 292	
Index	299
IIIICA	2)9

12

Acknowledgements

The first edition of the *Psychology of Human Emotion* was a textbook written for doctoral students of social psychology in European countries. The task of revising the book for a second edition, this time targeted at undergraduate psychology majors in North America, was a monumental undertaking. Not only did the textbook require stronger organization and far greater accessibility, but research findings that had been published since 2006 also had to be incorporated.

We could never have accomplished the feat of revising (or, more accurately, writing anew) this textbook without, first, the tireless help of Crystal Hanson. Crystal performed the herculean tasks of referencing; creating tables and figures; proofreading; managing information, communication, and personnel involved in the project; and basically being a production manager. Thank you, Crystal, and don't move too far away.

In the middle of the revision project, we lost the involvement of one of the former co-authors. In order to pick up the slack, we signed on (for pay!) Evie Rosset, who helped with detailed outlines of the Happiness chapter; Mathias Hibbard, who did the same for the Brain chapter; Sebastian Korb, who took Mathias's outline and wrote the entire first draft of that Brain chapter; and Adrienne Wood, who researched and largely revised the Emotional Expression chapter. Stephanie Carpenter read and commented on multiple chapters and suggested additions of missing concepts and findings to the Emotion Regulation chapter. Jared Martin helped us write and refine discussions of the physiology of emotion. All but one of these people are (or were) students, graduate students, or postdocs at the University of Wisconsin-Madison, and they are all amazing. We are indebted to you.

Throughout the revisions, we also received considerable help from the undergraduate research assistants in the Niedenthal Emotions Lab. These wonderful students include Jay Graiziger, Sarah Hevrdejs, George Perrett, Emma Phillips, Adam Sitter, and Olivia (Fangyun) Zhao.

Colleagues and scientists in the field read individual chapters and provided invaluable feedback. These include Janet Hyde, Yuri Miyamoto, James Russell, Magdalena Rychlowska, and Eliot Smith. Thank you so much for that help.

In order to improve the readability of the textbook, we hired two exceptional editors who live and work in Madison, Wisconsin. Ann Schaffer and Timothy Storm pointed out, commented, nudged, encouraged, suggested, and even rewrote. Ann and Tim, we are forever grateful.

Our families suffered through our grumpy and sometimes absent moments with great humor and resourcefulness. We love you.

Finally, one of our mothers Corrine Niedenthal, became ill during the revision of the textbook. She passed away during its production, and was the best mother in the world, and we dedicate the book to her.

How to Use This Book

The *Psychology of Emotion*, Second Edition, is intended to introduce undergraduate students to the scientific study of emotion. Since the turn of the twenty-first century, this endeavor has become its own field of study. Because the study of emotion draws inspiration from areas of science outside of psychology, including neuroscience, psychiatry, biology, genetics, computer science, zoology, and behavioral economics, the field is now often called **emotion science** or **affective science** (terms we use interchangeably). A subfield of affective science is affective neuroscience, the study of the emotional brain.

The explosion of ideas and research findings in emotion science created a quandary for the present authors. We had to decide what the book was going to include and not include. Because of our combined expertise in social psychology, cognitive science, and social cognition, we decided to focus the textbook on emotion in the typically developing individual. In other words, our textbook does not include chapters on emotion and mental health (e.g., affective disorders). Also, we focus largely on processes basic to emotion. We chose to omit historical and philosophical analyses in favor of summarizing and interpreting contemporary scientific methods and discoveries. We do believe it is important to provide students with that intellectual groundwork. However, as university professors who teach courses on the psychology of emotion, we find we prefer to present such material in lecture.

Lest the reader wonder what remains: a lot. Our chapters review theory and methods in emotion science; we discuss findings about the brain and the function, expression, and regulation of emotion; we delve into similarities and differences due to gender and culture; we examine the relationship between emotion and cognition; and we account for emotion processes in groups. We have made every effort to organize, prioritize, and interpret the meaning of the research findings featured in each chapter. We have also added some effective learning and teaching devices. In particular, each chapter includes:

- Bolded key terms, which flag concepts students should master.
- Developmental Details boxes, which zoom in on chapter topics as they relate to a point in the life cycle, most often infancy or childhood.
- Learning Links, which are suggested Internet sites that provide illustrations of or enrichment ideas about topics addressed in each chapter. (The links were active as of 2016. Should they become inactive, please use the information provided to locate the same material on a new site.)
- Tables, graphs, illustrations, and comics designed to expand on the chapter discussions.

Enjoy.