

Editor's Introduction	7
1 What is physiological psychology?	9
<i>The biological approach</i>	
<i>The task of physiological psychology</i>	
<i>Principle of interaction</i>	
<i>Emergence of physiological psychology</i>	
<i>Relationship to other branches of psychology</i>	
<i>The relevance of personal action</i>	
2 Strategies, methods and problems	19
<i>The two-way process</i>	
<i>Physiological systems</i>	
<i>Causal and correlatave strategies</i>	
<i>Physiological psychology and psychophysiology</i>	
<i>Biofeedback</i>	
3 Cerebral localization of psychological function	37
<i>Early attempts at localization</i>	
<i>Research turns a corner</i>	
<i>Specialization of functions in the cerebral hemispheres</i>	
<i>Methodological issues in localization</i>	
<i>The changing brain: evidence for neural plasticity</i>	
<i>Overview</i>	

4	Neurophysiology of motivation	59
	<i>Is motivation a unitary phenomenon?</i>	
	<i>Drive and motivation</i>	
	<i>Classification of motivational states</i>	
	<i>Features of homeostatic motivation</i>	
	<i>Measurement of motivation</i>	
	<i>Brain mechanisms and motivation</i>	
	<i>Hunger motivation and the control of food intake</i>	
	<i>Implications for the study of human obesity</i>	
5	Reinforcement, reward and pleasure	85
	<i>The function of pleasure</i>	
	<i>Neural substrate of reinforcement</i>	
	<i>Brain reward and conventional rewards</i>	
	<i>Explanations of intracranial reinforcement</i>	
	<i>Neuropharmacology of reward</i>	
6	Learning and memory	104
	<i>Biological aspects of learning</i>	
	<i>Neural substrate of memory</i>	
	<i>State-dependent learning and memory induced by drugs</i>	
7	Emotion and aggression	122
	<i>Physiological aspects of emotion</i>	
	<i>A brief look at emotional disorders and therapy</i>	
	<i>Postscript</i>	
	References and Name Index	139
	Subject Index	143