
CONTENTS

Editor's preface	xi
Notes on contributors	xiii

VOLUME 1

1 Introduction	1
1.1 What is psychology? Andrew M. Colman <i>University of Leicester, England</i>	3
1.2 Historical background of psychology Raymond E. Fancher <i>York University, Ontario, Canada</i>	19
2 Biological aspects of behaviour	39
Introduction	39
2.1 Heredity and behaviour genetics C. P. Kyriacou <i>University of Leicester, England</i>	42
2.2 Behavioural ecology and evolution John Lazarus <i>University of Newcastle upon Tyne, England</i>	69
2.3 The nervous system and the brain Daniel Kimble <i>University of Oregon, USA</i>	88
2.4 Sleep and dreaming J. Allan Hobson <i>Harvard Medical School, Massachusetts, USA</i>	109
2.5 Psychopharmacology Leonard W. Hamilton and C. Robin Timmons <i>Rutgers University, New Jersey, USA</i>	133

3 Sensation and perception	153
Introduction	153
3.1 Fundamental processes in vision Peter C. Dodwell <i>Queen's University, Ontario, Canada</i>	155
3.2 Computational theories of vision Mike G. Harris and Glyn W. Humphreys <i>University of Birmingham, England</i>	178
3.3 Hearing Brian C. J. Moore <i>University of Cambridge, England</i>	202
3.4 The skin, body, and chemical senses Harvey Richard Schiffman <i>Rutgers University, New Jersey, USA</i>	224
3.5 Psychophysics Donald Laming <i>University of Cambridge, England</i>	251
4 Cognition	279
Introduction	279
4.1 Memory Alan Baddeley <i>MRC Applied Psychology Unit, Cambridge, England</i>	281
4.2 Attention Michael W. Eysenck <i>Royal Holloway, University of London, Surrey, England</i>	302
4.3 Psycholinguistics Willem J. M. Levelt <i>Max-Planck-Institut für Psycholinguistik, Nijmegen, The Netherlands</i>	319
4.4 Thinking and reasoning Jonathan St B. T. Evans <i>University of Plymouth, Plymouth, England</i>	338
4.5 Artificial intelligence Alan Garnham <i>University of Sussex, England</i>	358
5 Learning and skills	377
Introduction	377
5.1 Classical and operant conditioning Nicholas J. Mackintosh <i>University of Cambridge, England</i>	379

5.2	Applied behaviour analysis Donald M. Baer <i>University of Kansas, USA</i>	397
5.3	Cognitive skills K. Anders Ericsson and William L. Oliver <i>Florida State University, USA</i>	415
5.4	Motor skills John Annett <i>University of Warwick, England</i>	434
5.5	Social skills Michael Argyle <i>University of Oxford, England</i>	454
6	Emotion and motivation	483
	Introduction	483
6.1	Emotion Brian Parkinson <i>University of Leicester, England</i>	485
6.2	Hunger and appetite John E. Blundell and Andrew J. Hill <i>University of Leeds, England</i>	506
6.3	Social motivation Russell G. Geen <i>University of Missouri, USA</i>	522
6.4	Sexual motivation and behaviour John Bancroft <i>MRC Reproductive Biology Unit, Edinburgh, Scotland</i>	542
6.5	Stress and coping Robert J. Gatchel <i>University of Texas Southwestern Medical Center, USA</i>	560
7	Individual differences and personality	581
	Introduction	581
7.1	Intelligence and cognitive styles Robert J. Sternberg <i>Yale University, Connecticut, USA</i>	583
7.2	The construction of personality Sarah E. Hampson <i>Oregon Research Institute, USA</i>	602
7.3	Trait theories of personality H. J. Eysenck <i>University of London Institute of Psychiatry, England</i>	622
7.4	Freudian theories of personality Richard Stevens <i>The Open University, Milton Keynes, England</i>	641

VOLUME 2

8 Developmental psychology	681
Introduction	681
8.1 Infancy George Butterworth <i>University of Sussex, England</i>	683
8.2 Cognitive development Sara Meadows <i>University of Bristol, England</i>	699
8.3 Social development Peter K. Smith <i>University of Sheffield, England</i>	716
8.4 Adolescence John C. Coleman <i>Trust for the Study of Adolescence, Brighton, England</i>	736
8.5 Ageing John C. Cavanaugh <i>University of Delaware, USA</i>	752
9 Social psychology	773
Introduction	773
9.1 Attitudes and persuasion Klaus Jonas <i>Universität Tübingen, Germany</i> and Alice H. Eagly <i>Purdue University, Indiana, USA</i> and Wolfgang Stroebe <i>Rijksuniversiteit te Utrecht, The Netherlands</i>	775
9.2 Social influence processes Peter B. Smith <i>University of Sussex, England</i>	794
9.3 Attribution and social cognition David J. Schneider <i>Rice University, Texas, USA</i>	812
9.4 Prejudice and intergroup conflict James Vivian and Rupert Brown <i>University of Kent, England</i>	831
9.5 Non-verbal communication Peter Bull <i>University of York, England</i> and Lesley Frederikson <i>Massey University, New Zealand</i>	852

10 Abnormal psychology	873
Introduction	873
10.1 Neuroses: depressive and anxiety disorders J. Mark G. Williams and Isabel R. Hargreaves <i>University College of North Wales, Bangor, Wales</i>	875
10.2 Psychotic disorders: schizophrenia, affective psychoses, and paranoia Chris Frith and Connie Cahill <i>MRC Cyclotron Unit and University College London, England</i>	897
10.3 Infantile autism Simon Baron-Cohen <i>University of London Institute of Psychiatry, England</i>	918
10.4 Eating disorders Peter J. Cooper <i>University of Cambridge, England</i>	930
10.5 Alcohol and drug addiction Geoffrey Lowe <i>University of Hull, England</i>	950
11 Special topics	969
Introduction	969
11.1 Parapsychology Susan Blackmore <i>University of the West of England, Bristol, England</i>	971
11.2 Hypnosis Graham F. Wagstaff <i>University of Liverpool, England</i>	991
11.3 Gender issues in psychology Mary Crawford <i>University of South Carolina, USA</i> and Rhoda K. Unger <i>Montclair State College, New Jersey, USA</i>	1007
11.4 Psychology and the law Robert T. Croyle <i>University of Utah, USA</i> and Elizabeth F. Loftus <i>University of Washington, USA</i>	1028
11.5 Health psychology John Weinman <i>Guy's Hospital, London, England</i>	1046

12 Research methods and statistics	1063
Introduction	1063
12.1 Experimental design David D. Stretch <i>University of Leicester, England</i>	1065
12.2 Analysis of variance designs Brian S. Everitt <i>University of London Institute of Psychiatry, England</i>	1082
12.3 Descriptive and inferential statistics A. W. MacRae <i>University of Birmingham, England</i>	1099
12.4 Quasi-experiments and correlational studies Michael L. Raulin and Anthony M. Graziano <i>State University of New York at Buffalo, USA</i>	1122
12.5 Survey methods, naturalistic observations, and case-studies Francis C. Dane <i>Mercer University, Georgia, USA</i>	1142
12.6 Ethical issues in psychological research Anthony Gale <i>University of Southampton, England</i>	1156
13 The professions of psychology	1177
Introduction	1177
13.1 Clinical and counselling psychology Graham E. Powell <i>University of Surrey, England</i>	1179
13.2 Educational (school) psychology David Fontana <i>University of Wales, Cardiff, Wales</i>	1200
13.3 Industrial (occupational) and organizational psychology Wendy Hollway <i>University of Bradford, England</i>	1215
13.4 Forensic (criminological) psychology Clive R. Hollin <i>University of Birmingham, England</i>	1231
13.5 Psychoanalysis Peter Fonagy <i>University College London, England</i>	1254
Glossary	1275
Index	1309