CONTENTS

Preface • vii List of Figures • xv List of Tables • xxiii Toward Fusion • 1

PART ONE. THEORETICAL AND METHODOLOGICAL FOUNDATIONS OF INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY • 13

SECTION I. Conceptual Foundations of Industrial and Organizational Psychology • 15

GEORGE W. ENGLAND, The University of Minnesota

- 1. THEORY BUILDING IN APPLIED AREAS 17 ROBERT DUBIN, University of California, Irvine
- 2. A GENERAL SYSTEMS APPROACH TO ORGANIZATIONS 41 F. KENNETH BERRIEN, LATE, Rutgers University
- 3. MOTIVATION THEORY IN INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY • 63

JOHN P. CAMPBELL, The University of Minnesota/ROBERT D. PRITCHARD, Purdue University

4. HUMAN LEARNING • 131 RUSSELL W. BURRIS, The University of Minnesota

SECTION II. Methodological Foundations of Industrial and Organizational Psychology • 147

JOHN P. CAMPBELL, The University of Minnesota

 PROBLEMS AND NEW DIRECTIONS FOR INDUSTRIAL PSYCHOLOGY • 151 CHRIS ARGYRIS, Harvard University

- 6. PSYCHOMETRIC THEORY 185 JOHN P. CAMPBELL, The University of Minnesota
- THE DESIGN AND CONDUCT OF QUASI-EXPERIMENTS AND TRUE EXPERIMENTS IN FIELD SETTINGS • 223 THOMAS D. COOK AND DONALD T. CAMPBELL, Northwestern University
- 8. MULTIVARIATE PROCEDURES 327 DAVID J. WEISS, The University of Minnesota
- FIELD RESEARCH METHODS: INTERVIEWING, QUESTIONNAIRES, PARTICIPANT OBSERVATION, SYSTEMATIC OBSERVATION, UNOBTRUSIVE MEASURES • 363 THOMAS J. BOUCHARD JR., The University of Minnesota
- 10. LABORATORY EXPERIMENTATION 415 Howard L. FROMKIN AND SIEGFRIED STREUFERT, Purdue University

PART TWO. INDIVIDUAL AND JOB MEASUREMENT AND THE MANAGEMENT OF INDIVIDUAL BEHAVIOR IN ORGANIZATIONS · 467

SECTION III. Basic Attributes of Individuals in Relation to Behavior in Organizations • 469

MARVIN D. DUNNETTE, The University of Minnesota

- 11. APTITUDES, ABILITIES, AND SKILLS 473 MARVIN D. DUNNETTE, The University of Minnesota
- 12. VOCATIONAL PREFERENCES 521 JOHN L. HOLLAND, The Johns Hopkins University
- 13. PERSONALITY AND PERSONALITY ASSESSMENT 571 HARRISON GOUGH, University of California, Berkeley
- 14. BACKGROUND DATA 609 WILLIAM A. OWENS, The University of Georgia

SECTION IV. The Practice of Industrial and Organizational Psychology • 645 ROBERT M. GUION, Bowling Green State University

- 15. JOB AND TASK ANALYSIS 651 ERNEST J. MCCORMICK, Purdue University
- 16. ENGINEERING PSYCHOLOGY 697 Alphonse Chapanis, The Johns Hopkins University

xii

- BEHAVIORS, RESULTS, AND ORGANIZATIONAL EFFECTIVENESS: THE PROBLEM OF CRITERIA • 745
 PATRICIA C. SMITH, Bowling Green State University
- 18. RECRUITING, SELECTION, AND JOB PLACEMENT 777 ROBERT M. GUION, Bowling Green State University
- 19. PERSONNEL TRAINING 829 JOHN R. HINRICHS, International Business Machines Corp.
- 20. MANAGERIAL ASSESSMENT CENTERS 861 ROBERT B. FINKLE, The Standard Oil Company (Ohio)
- 21. CONFLICT AND CONFLICT MANAGEMENT 889 KENNETH THOMAS, University of California, Los Angeles
- 22. THE TECHNOLOGY OF ORGANIZATION DEVELOPMENT 937 MICHAEL BEER, Harvard University
- 23. THE MANAGEMENT OF INEFFECTIVE PERFORMANCE 995 JOHN B. MINER, Georgia State University/J. FRANK BREWER, University of Maryland
- 24. CONSUMER AND INDUSTRIAL PSYCHOLOGY: PROSPECTS FOR THEORY CORROBORATION AND MUTUAL CONTRIBUTION • 1031

JACOB JACOBY, Purdue University

PART THREE. DESCRIPTION AND MEASUREMENT OF ORGANIZATIONS AND OF BEHAVIORAL PROCESSES IN ORGANIZATIONS · 1063

SECTION V. Attributes of Organizations and Their Effects on Organization Members • 1065

J. RICHARD HACKMAN, Yale University

- 25. ORGANIZATIONS AND THEIR ENVIRONMENTS 1069 WILLIAM H. STARBUCK, University of Wisconsin-Milwaukee
- 26. ORGANIZATIONAL STRUCTURE AND CLIMATE 1125 Roy PAYNE, University of Sheffield/DEREK S. PUGH, London Graduate School of Business Studies
- THE STRUCTURE AND DYNAMICS OF BEHAVIOR IN ORGANIZATIONAL BOUNDARY ROLES • 1175
 J. STACY ADAMS, University of North Carolina
- 28. ROLE-MAKING PROCESSES WITHIN COMPLEX ORGANIZATIONS • 1201 GEORGE GRAEN, University of Illinois

CONTENTS

- 29. CONTROL SYSTEMS IN ORGANIZATIONS 1247 Edward E. Lawler III, University of Michigan
- **SECTION VI.** Behavioral Processes in Organizations 1293 J. RICHARD HACKMAN, Yale University
- 30. THE NATURE AND CAUSES OF JOB SATISFACTION 1297 EDWIN A. LOCKE, University of Maryland
- 31. STRESS AND BEHAVIOR IN ORGANIZATIONS 1351 JOSEPH E. McGrath, University of Illinois
- 32. DECISION MAKING AND PROBLEM SOLVING 1397 KENNETH R. MACCRIMMON AND RONALD N. TAYLOR, University of British Columbia
- 33. GROUP INFLUENCES ON INDIVIDUALS 1455 J. RICHARD HACKMAN, Yale University
- 34. LEADERSHIP 1527 VICTOR H. VROOM, Yale University
- 35. COMMUNICATION IN ORGANIZATIONS 1553 LYMAN W. PORTER, University of California, Irvine/ KARLENE H. ROBERTS, University of California, Berkeley
- 36. CHANGE PROCESSES IN ORGANIZATIONS 1591 CLAYTON P. ALDERFER, Yale University
- 37. CROSS-CULTURAL ISSUES IN INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY • 1639

GERALD V. BARRETT, University of Akron/ BERNARD M. BASS, University of Rochester

> Credits and Acknowledgments • 1687 Name Index • 1691 Subject Index • 1729