

Indirect Perception

Edited by Irvin Rock

With a foreword by Stephen E. Palmer

A Bradford Book
The MIT Press
Cambridge, Massachusetts
London, England

Contents

Series Foreword ix

Foreword: The Legacy of Irvin Rock xi
Stephen E. Palmer

Part I

On Indirect Perception

Introduction 3

Chapter 1

The Concept of Indirect Perception 5

Irvin Rock

Chapter 2

Percept-Percept Couplings 17

William Epstein

Part II

Perceptual Organization

Introduction 33

Chapter 3

Grouping and Proximity 37

Irvin Rock and Leonard Brosgole

Chapter 4

Grouping and Lightness 47

Irvin Rock, Romi Nijhawan, Stephen E. Palmer, and Leslie Tudor

Chapter 5

Grouping and Amodal Completion 63

Stephen E. Palmer, Jonathan Neff, and Diane Beck

Part III

Shape

Introduction 79

Chapter 6

Shape and the Retinal Image 85

Irvin Rock and Christopher M. Linnett

Chapter 7

Anorthoscopic Perception 107

Irvin Rock

Chapter 8

Induced Form 125

Irvin Rock and Alan L. Gilchrist

Chapter 9

Orientation and Form 133

Irvin Rock

Chapter 10

Symmetry 151

Irvin Rock and Robin Leaman

Chapter 11

The Right Angle 163

Donatella Ferrante, Walter Gerbino, and Irvin Rock

Chapter 12

Masking 171

Charles W. White

Chapter 13

Symmetry Based on Figure Halves 187

Janet P. Szlyk, Irvin Rock, and Celia B. Fisher

Part IV

Motion

Introduction 203

Chapter 14

The Perception of Movement 209

Irvin Rock

Chapter 15

Apparent Motion Based on Phenomenal Location 249

Irvin Rock and Sheldon Ebenholtz

| | |
|--|-----|
| Chapter 16 | |
| Apparent Motion Based on Changing Phoria | 265 |
| <i>Hiroshi Ono and Gail Gonda</i> | |
| Chapter 17 | |
| Apparent Movement in Tridimensional Space | 277 |
| <i>Fred Attneave and Gene Block</i> | |
| Chapter 18 | |
| Motion Aftereffects and Retinal Motion | 291 |
| <i>Arien Mack, James Hill, and Steven Kahn</i> | |
| Chapter 19 | |
| Speed Constancy and Size Constancy | 301 |
| <i>Irvin Rock, A. Lewis Hill, and Mark Fineman</i> | |
| Part V | |
| Illusions | |
| Introduction | 313 |
| Chapter 20 | |
| The Müller-Lyer Illusion Reexamined | 315 |
| <i>Romi Nijhawan</i> | |
| Chapter 21 | |
| The Conditions for Perceiving Dynamic Occlusion of a Line | 335 |
| <i>Irvin Rock and Alan L. Gilchrist</i> | |
| Part VI | |
| Lightness | |
| Introduction | 349 |
| Chapter 22 | |
| Perceived Lightness Depends on Perceived Spatial Arrangement | 351 |
| <i>Alan L. Gilchrist</i> | |
| Part VII | |
| Final Considerations | |
| Introduction | 359 |
| Chapter 23 | |
| The Organization of Perceived Space | 361 |
| <i>Walter C. Gogel</i> | |
| Index | 387 |