Contents

PREFACE xv

CHAPTER 1
Logic and Argument 1

1.1 Logic Defined 1
1.2 Statements 3
  Exercise 1.2 Identifying Statements 6
1.3 Argument Defined 7
  Exercise 1.3 Argument Form 10
1.4 Diagramming Arguments 12
  Exercise 1.4 Diagramming Arguments 15
1.5 Supplying Missing Parts: Enthymemes 16
  Exercise 1.5 Enthymemes: Missing Premises and Conclusions 18
1.6 Recognizing Real Arguments 19
  Interpretation and the Principle of Charity 22
  Exercise 1.6 Recognizing Real Arguments 23
CHAPTER 7

Formal Deduction 172

7.1 Introduction 172

7.2 The Rules of Inference: Group I 173
  Exercise 7.2A The Validity of Rules of Inference, Group I 179
  Exercise 7.2B Deductions with the Rules of Inference, Group I 180

7.3 The Rules of Inference: Group II 180
  Exercise 7.3A The Validity of Rules of Inference, Group II 183
  Exercise 7.3B Complete the Deductions 184
  Exercise 7.3C Rules of Inference 186

7.4 Equivalences 187
  Table 7.1 Rules of Inference 192
  Table 7.2 Equivalences 192
  Exercise 7.4A Equivalences and Rules of Inference 193
  Exercise 7.4B More Deductions 194
  Exercise 7.4C Symbolize and Deduce 195

Review Questions 197

CHAPTER 8

Inductive Logic 198

8.1 Inductive Strength 199

8.2 Inductive Generalization 202
  Summary: Inductive Generalization 206
  Exercise 8.2 Inductive Generalization 207

8.3 Causal Arguments 210
  Causal Statements 210
  The Senses of the Word 'Cause' 211
  The Structure of Causal Relationships 213

CONTENTS xi