

CONTENTS

SECTION I The Epidemiologic Approach to Disease and Intervention

- 1 Introduction, 2
- 2 The Dynamics of Disease Transmission, 21
- 3 The Occurrence of Disease: I. Disease Surveillance and Measures of Morbidity, 43
- 4 The Occurrence of Disease: II. Mortality and Other Measures of Disease Impact, 67
- 5 Assessing the Validity and Reliability of Diagnostic and Screening Tests, 96
- 6 The Natural History of Disease: Ways of Expressing Prognosis, 125
- 12 Estimating Risk: Is There an Association? 240
- 13 More on Risk: Estimating the Potential for Prevention, 258
- 14 From Association to Causation: Deriving Inferences From Epidemiologic Studies, 268
- 15 More on Causal Inference: Bias, Confounding, and Interaction, 288
- 16 Identifying the Roles of Genetic and Environmental Factors in Disease Causation, 306

SECTION II Using Epidemiology to Identify the Cause of Disease

- 7 Observational Studies, 152
- 8 Cohort Studies, 181
- 9 Comparing Cohort and Case-Control Studies, 196
- 10 Assessing Preventive and Therapeutic Interventions: Randomized Trials, 200
- 11 Randomized Trials: Some Further Issues, 219

SECTION III Applying Epidemiology to Evaluation and Policy

- 17 Using Epidemiology to Evaluate Health Services, 334
 - 18 Epidemiologic Approach to Evaluating Screening Programs, 354
 - 19 Epidemiology and Public Policy, 381
 - 20 Ethical and Professional Issues in Epidemiology, 402
- Answers, 416
Index, 419