







ROBERT T. RATAY

CONTENTS

Contributors ix Preface xi

| Part I | Des | ign and | Construct | ion Practices |
|--------|-----|---------|-----------|---------------|
|--------|-----|---------|-----------|---------------|

Chapter 1 The Design and Construction Process Antraning M. Ouzoonian and Joseph Zelazny

Chapter 2 Design Codes, Standards, and Manuals

| John F. Duntemann | 2.1 |
|--|-----|
| Chapter 3 Construction Safety Codes, Standards, and Regulations Mohammad Ayub | 3.1 |
| Part II Investigation of Failures and Resolution of Claims | - |
| Chapter 4 The First Steps after a Failure David B. Peraza and Daniel A. Cuoco | 4.1 |
| Chapter 5 Legal Concerns after a Failure Michael C. Loulakis | 5.1 |
| Chapter 6 Engineering Investigation of Failures Glenn R. Bell | 6.1 |
| Chapter 7 Standard of Care Joshua B. Kardon | 7.1 |
| Chapter 8 Litigation and Dispute Resolution Robert A. Rubin and Dana Wordes | 8.1 |
| Chapter 9 The Expert Consultant and Witness David E. Thompson and Howard W. Ashcraft | 9.1 |

viii CONTENTS

Chapter 15 Timber Structures

Chapter 16 Structural Foundations

Chapter 17 Temporary Structures

Index

Part III Engineering Analysis of Structural Defects

| and Failures | | |
|---|------|--|
| Chapter 10 Loads and Hazards Donald O. Dusenberry | 10.1 | |
| Chapter 11 Steel Structures John W. Fisher and Alan W. Pense | 11.1 | |
| Chapter 12 Concrete Structures W. Gene Corley | 12.1 | |
| Chapter 13 Masonry Structures Clayford T. Grimm | 13.1 | |
| Chapter 14 The Building Envelope Kimball J. Beasley and David S. Patterson | | |

Donald W. Neal

Robert W. Day

Robert T. Ratay

15.1

16.1

17.1

1.1