CONTENTS

6 Bending 259

7 Transverse Shear 363

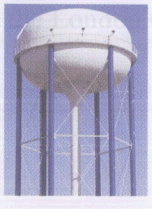
8 Combined Loadings 409

9 Stress Transformation 441

10 Strain Transformation 489

11 Design of Beams and Shafts 541

12 Deflection of Beams and Shafts 573



13 Buckling of Columns 661

14 Energy Methods 719

Appendix

Solutions and Answers for Preliminary Problems 814

Fundamental Problems Partial Solutions and Answers 825

Selected Answers 844

Index 866