

## CONTENTS

CHAPTER	PAGE
1. Composition and resolution of vectors . . . . .	1
2. Statics . . . . .	14
3. Moments — center of gravity . . . . .	30
4. Rectilinear motion . . . . .	47
5. Newton's second law . . . . .	65
6. Motion of a projectile . . . . .	91
7. Work and energy . . . . .	101
8. Impulse and momentum . . . . .	126
9. Circular motion . . . . .	141
10. Rotation . . . . .	168
11. Elasticity . . . . .	192
12. Harmonic motion . . . . .	203
13. Hydrostatics . . . . .	223
14. Hydrodynamics and viscosity . . . . .	246
15. Temperature — expansion . . . . .	262
16. Quantity of heat . . . . .	277
17. Transfer of heat . . . . .	293
18. The First Law of Thermodynamics . . . . .	306
19. Thermal properties of matter . . . . .	317
20. The Second Law of Thermodynamics . . . . .	347
21. Wave motion . . . . .	363
22. Vibrating bodies . . . . .	375
23. Acoustical phenomena . . . . .	390
Answers to problems . . . . .	412
Supplementary Problems and Answers	
Index	
Common Logarithms	
Natural Trigonometric Functions	
Constants and Conversion Factors	
Periodic Table	