



# CONTENTS

<i>Contributors</i> . . . . .	v
<i>Preface</i> . . . . .	ix
Section 1. <i>Excavation and Transportation of Earth and Rock</i>	
Chapter 1. Tractors and Related Equipment . . . . .	1-3
Chapter 2. Excavators . . . . .	2-1
Chapter 3. Off-highway Hauling. . . . .	3-1
Chapter 4. Rock Excavation in Open Cuts and Quarries. . . . .	4-1
Chapter 5. Tunnels in Rock . . . . .	5-1
Chapter 6. Explosives. . . . .	6-1
Chapter 7. Construction Dewatering . . . . .	7-1
Section 2. <i>Concrete</i>	
Chapter 8. The Selection of Materials and Mix Proportions for Concrete . . . . .	8-3
Chapter 9. Aggregates . . . . .	9-1
Chapter 10. Concrete Batching, Mixing, Placing, and Curing. . . . .	10-1
Chapter 11. Pneumatically Applied Concrete . . . . .	11-1
Chapter 12. Concrete by Intrusion Grouting . . . . .	12-1
Chapter 13. Precast and Prestressed Concrete . . . . .	13-1
Chapter 14. Reinforcing Steel. . . . .	14-1
Chapter 15. Forms . . . . .	15-1
Section 3. <i>Steel</i>	
Chapter 16. Steel Erection. . . . .	16-3
Chapter 17. Electric-arc Welding. . . . .	17-1
Chapter 18. Flame Cutting and Welding . . . . .	18-1
Section 4. <i>Timber</i>	
Chapter 19. Heavy-timber Construction. . . . .	19-3

Section 5. *Highways*

- Chapter 20. Bituminous Pavements . . . . . 20-3

Section 6. *Pipelines*

- Chapter 21. Pipelines—Cross Country . . . . . 21-3

Section 7. *Foundations*

- Chapter 22. Piles and Pile Driving . . . . . 22-3

- Chapter 23. Cofferdams and Caissons . . . . . 23-1

Section 8. *Miscellaneous Equipment and Operations*

- Chapter 24. Cableways. . . . . 24-3

- Chapter 25. Floating Equipment. . . . . 25-1

- Chapter 26. Construction Services . . . . . 26-1

- Chapter 27. Tires for Construction Equipment. . . . . 27-1

- Chapter 28. River Diversion . . . . . 28-1

Section 9. *General*

- Chapter 29. Contractor's Organization . . . . . 29-3

- Chapter 30. Owner's Engineer . . . . . 30-1

- Chapter 31. Construction Contracts . . . . . 31-1

- Chapter 32. Safety . . . . . 32-1

*Index follows Chapter 32.*

