

# CRANES and DERRICKS

FOURTH EDITION



LAWRENCE K.  
**SHAPIRO**

JAY P.  
**SHAPIRO**

# Cranes Derricks Edition Lawrence Shapiro

**Beth Lin Hartmann**



## **Cranes Derricks Edition Lawrence Shapiro:**

Cranes and Derricks, Fourth Edition Lawrence Shapiro, Jay Shapiro, 2010-09-21 The Definitive Handbook on Cranes and Derricks Updated Per the Latest Standards and Equipment Fully revised throughout Cranes and Derricks Fourth Edition offers comprehensive coverage of the selection installation and safe use of cranes and derricks on construction sites Written for both engineers and non engineers by the principals of an engineering consulting firm that has helped to define the state of the art in crane and derrick engineering this authoritative guide discusses a wide range of equipment and the operations capabilities advantages and disadvantages of each device References to U S and international codes and standards are included in this practical resource as well as a comprehensive glossary Cranes and Derricks Fourth Edition covers Lifting equipment theory and fundamentals Crane and derrick types and configurations Mobile crane practices for both crawler and wheel based cranes Multiple crane picks Installation design for tower cranes Jumping of tower cranes Chicago boom guy gin pole stiffleg and other forms of derricks Loads acting on cranes and the forces imposed by cranes on their supports Analysis of wind using ASCE 37 and ASCE 7 Stability against overturning Safety and risk management Cranes and Derricks, Fourth Edition Lawrence K. Shapiro, Jay P. Shapiro, 2010-10-04 The Definitive Handbook on Cranes and Derricks Updated Per the Latest Standards and Equipment Fully revised throughout Cranes and Derricks Fourth Edition offers comprehensive coverage of the selection installation and safe use of cranes and derricks on construction sites Written for both engineers and non engineers by the principals of an engineering consulting firm that has helped to define the state of the art in crane and derrick engineering this authoritative guide discusses a wide range of equipment and the operations capabilities advantages and disadvantages of each device References to U S and international codes and standards are included in this practical resource as well as a comprehensive glossary Cranes and Derricks Fourth Edition covers Lifting equipment theory and fundamentals Crane and derrick types and configurations Mobile crane practices for both crawler and wheel based cranes Multiple crane picks Installation design for tower cranes Jumping of tower cranes Chicago boom guy gin pole stiffleg and other forms of derricks Loads acting on cranes and the forces imposed by cranes on their supports Analysis of wind using ASCE 37 and ASCE 7 Stability against overturning Safety and risk management Cranes and Derricks Howard I. Shapiro, Jay Shapiro, Lawrence Shapiro, 1999-07-27 Written by a team of engineer experts with an international practice nearly 30 years involvement in establishing industry standards and in depth experience in accident investigation Cranes and Derricks is the definitive sourcebook in the field covering every aspect of equipment design job preparation setup management machinery handling and safety It is the must have reference for everyone involved with cranes and derricks from the drawing board to delivery operation and storage BOOK JACKET PPI Construction Depth Practice Exams for the Civil PE Exam, 3rd Edition eText - 1 Year Beth Lin Hartmann, 2017-08-24 Realistic Multiple Choice Problems for Exam Like Preparation Construction Depth Practice Exams for the Civil PE Exam contains two 40 problem multiple choice exams

consistent with the NCEES PE Civil Construction Exam s format and specifications Like the actual exam the problems in this book require an average of six minutes to solve Comprehensive step by step solutions demonstrate accurate and efficient problem solving approaches Plus author commentary is provided in the solutions explaining time saving shortcuts and common pitfalls Taking each exam in this book within the actual exam s four hour time limit will simulate exam conditions enhance your time management skills and help you identify which references you ll need most on exam day Once complete you can easily evaluate your performance by using the two individual answer keys Topics Covered Construction Operations and Methods Earthwork Construction and Layout Estimating Quantities and Costs Health and Safety Material Quality Control and Production Scheduling Temporary Structures Key Features Consistent with the exam scope and format Learn accurate and efficient problem solving approaches Connect relevant theory to exam like problems Solve problems under exam like timed conditions Binding Paperback Publisher PPI A Kaplan Company **New Technical Books** New York Public Library,1991 Construction Planning, Equipment, and Methods, Ninth Edition Robert L. Peurifoy,Clifford J.

Schexnayder,Robert Schmitt,Aviad Shapira,2018-02-05 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Fully updated coverage of construction planning techniques and equipment technology Construction Planning Equipment and Methods Ninth Edition follows in the footsteps of previous editions by laying out the fundamentals of machine utilization and production estimating in a logical simple and concise format The book discusses the latest technologies and capabilities and offers real world applications Examples and illustrations showcase the latest equipment models and end of chapter summaries and homework problems reinforce salient points You will explore construction economics earthwork and soil and rock properties Safety procedures and financial considerations are thoroughly explained in this comprehensive guide Coverage includes The history of construction equipment Safety Planning equipment utilization Equipment economics Operating costs Rent and lease considerations Planning for earthwork construction Soil and rock Compaction specifications Seismic and deflection testing Soil processing Current models of dozers excavators scrapers and cranes And much more

**Rigging Equipment: Maintenance and Safety Inspection Manual** Joseph MacDonald,2010-10-05 Safely maintain and operate rigging equipment Rigging Equipment Maintenance and Safety Inspection Manual is a must have for rigging contractors facility managers and equipment operators Featuring regulations standards guidelines and recommendations applicable to critical lifts this practical guide provides maintenance and safety inspection checklists for rigging equipment components and systems and addresses the required training planning and documentation The safe rigging practices recommended in this book are framed in general terms to accommodate the many variations in rigging practices Coverage includes Operating rules rigging hazards OSHA regulations consensus standards and industry guidelines Operator qualifications safe operating practices and operating procedures Planning and preparation before performing rigging Lifting

and hoisting equipment and rigging and scaffolding systems Ladders stairways ramps hand and power tools and electrical systems Maintenance schedules care and safe operation of equipment Inspection checklists for rigging equipment before during and after use Testing certification and registration of rigging equipment Preventive maintenance recordkeeping based on equipment manufacturer s recommendations Proper use of personal safety and protective equipment **Choice** ,1999 **Against the Grain** ,1999 **Construction Index** ,1992 **Sci-tech News** ,1992 **Construction Planning, Equipment, and Methods** Robert Leroy Peurifoy,Cliff J. Schexnayder,Aviad Shapira,2006 1 Machines Make It Possible 2 Fundamental Concepts of Equipment Economics 3 Planning for Earthwork Construction 4 Soil and Rock 5 Compaction and Stabilization Equipment 6 Machine Equipment Power Requirements 7 Dozers 8 Scrapers 9 Excavators 10 Trucks and Hauling Equipment 11 Finishing **American Book Publishing Record** ,1991 **Crane Safety on Construction Sites** Task Committee on Crane Safety on Construction Sites,1998-01-01 Crane Safety on Construction Sites ASCE Manuals and Reports on Engineering Practice No 93 was written to aid the construction industry in the management of crane operations Crane operations in construction range from unloading and setting equipment on a one time basis to using numerous cranes that perform multiple tasks on larger complex projects This manual addresses these variables by clearly defining and assigning crane management responsibilities It discusses issues such as safety plans responsibilities supervision and management operations training manufacture crane safety devices and regulations in some detail as they relate to crane management Appendixes are provided that list additional resources manufacturers of crane safety devices and explore case studies of crane accidents **Construction Methods and Management** S. W. Nunnally,1998 Construction Methods and Management has been thoroughly revised and updated to present a comprehensive introduction to the methods and management of today s construction industry This text covers the material so thoroughly that it can serve as the basic text for a variety of construction courses S W Nunnally covers critical path methods contracts construction economics productivity safety and health in addition to building construction heavy construction and earthmoving In addition the author includes over 250 illustrations of current equipment procedures and management techniques and updated numerous end of chapter problems questions and computer applications Managing Construction Equipment S. W. Nunnally,2000 This book guides readers in planning estimating and directing construction equipment operations toward achieving the best possible result Every effort is made to present such advanced management techniques as quantitative management methods queuing theory and system simulation in a way that can be easily understood and used by those with little background in higher mathematics or operations research Coverage features new chapters on compressed air and water systems lifting equipment and the production of aggregate concrete and asphalt mixes as well as expanded discussions of more traditional topics including compaction equipment and techniques construction safety and environmental health loaders pavement repair and rehabilitation quantitative management methods the rent lease buy decision rock excavation production and cost

roller compacted concrete the simulation of construction equipment operations soil stabilization and trenchers and trenchless technology For construction and construction equipment managers and engineers *The Cumulative Book Index*, 1990 A world list of books in the English language **ENR.**, 2008 **Temporary Structures in Construction, Third Edition** Robert Ratay, 2012-05-06 The most complete and current guide to temporary structures in design and construction With significant revisions updates and new chapters Temporary Structures in Construction Third Edition presents authoritative information on professional practice codes standards design erection maintenance and failures of temporary support and access structures used in construction New developments and advancing technologies are discussed throughout the book and new chapters on construction and environmental loads cranes and lessons learned from temporary structure failures have been added Improve the quality safety speed and financial success of construction projects with help from this practical resource Inside 26 expert contributors cover Professional and business practices Standards codes and regulations Construction and environmental loads Construction site safety Legal aspects Cofferdams Earth retaining structures Diaphragm slurry walls Construction dewatering Underground tunneling supports Underpinning Roadway decking Construction ramps runways and platforms Scaffolding Shoring falsework Concrete formwork Bracing and guying for stability Bridge falsework Temporary structures in repair and restoration Cranes Protection of site adjacent areas and utilities Failure of temporary structures in construction *Books In Print 2004-2005* Ed Bowker Staff, Staff Bowker, Ed, 2004

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