

RSMeans



# *Electrical Cost Data*

*25th Annual Edition*

2002



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CONSTRUCTION

# Electrical Cost Data 2002 Means Electrical Cost Data

**R S Means Company**



## **Electrical Cost Data 2002 Means Electrical Cost Data :**

Estimating Building Costs Calin M. Popescu, Kan Phaobunjong, Nuntapong Ovararin, 2003-04-22 Companies live or die on the basis of estimating their costs Preparing estimates and bidding for new jobs is a complex and often costly process There is no substitute for on the job training until now Drawing on the authors combined experience of more than 70 years Estimating Building Costs presents state of the art principles practices a Means Labor Rates for the Construction Industry, 2001

**2002 Electrical Cost Data** Robert Snow Means Company, Inc, 2002-11-11 This well organized up to date reference provides total cost guidance with over 13 000 unit cost entries There are literally thousands of material and labor price entries 3 D illustrations estimating models and a labor hour format which makes this information more useful to you for estimating and scheduling It s complete and current Updated unit and systems cost groupings give you the estimating versatility to tackle any kind of electrical estimate In all this is powerful know how with cost saving ideas and cost recommendations for both designing and cost planning It is an invaluable tool for all estimators whether designing engineering or contracting Included in the 2002 edition Enhanced suggested manpower required to install electrical units Revised and expanded residential wiring cost data for homes condominiums and apartments Latest products materials and electrical construction methods such as NEMA 3R rainproof wireway nonmetallic outlet boxes premium efficiency grade motors UTP Category 5 and variable speed drives City Cost Indexes and Location Factors for labor and materials for over 930 zip code locations Rules of thumb for selective electrical demolition High Voltage Transmission line data from 69 kV to 500 kV Three sections providing detailed unit cost items comprehensive assemblies costs and informative reference information Conforms to the latest CSI MasterFormat Master List of Numbers and Titles for Unit Prices and UNIFORMAT II numbering system for the Assemblies section

**Repair & Remodeling Cost Data** R.S. Means Company, 2002 Residential Detailed Costs R S Means Company, 2002 Electrical Cost Data, 2002, 2004 **Residential Square Foot Costs** R S Means Company, 2002

**Square Foot Costs** R.S. Means Company, 2004-04-27 RS Means Electrical Change Order Cost Data: 2002 R S Means Company, 2001 This well organized reference provides over 20 000 unit cost entries for use in estimating change orders It s complete and current with newly updated pricing for both pre and post installation change order situations This format gives you the estimating versatility to tackle any kind of electrical change order estimating problem complete with cost saving ideas and estimating recommendations Features in the 2002 edition Labor productivities have been developed taking into account conditions usually associated with change orders Historical Cost Indexes Material costs adjusted to reflect the smaller quantities usually purchased for change orders And much more *Electrical Construction Databook* Robert B. Hickey, 2002 Annotation Keep your electrical construction projects running smoothly ELECTRICAL CONSTRUCTION DATABOOK is the all in one power tool you need to minimize construction risks and problems avoid costly mistakes work more efficiently handle more projects without outside help reduce waste cut cost and maximize profits

Applications expert Bob Hickey provides the exact data that lets you keep any commercial industrial or institutional electrical design and construction project on track and within budget In this detail by detail quick reference sourcebook Bob focuses on easy to understand electrical system concepts calculations and code requirements that are most frequently encountered in a typical electrical system installation You get a wealth of practical advice backed by hundreds of tables sample calculations charts diagrams and illustrations that will enable you to quickly and easily Plan and design projects Determine space requirements for equipment installations Properly size equipment and distribution components Ensure adequate short circuit protection Provide proper over current protection and coordination Comply with building codes and industry standards

**Means Residential Cost Data** R.S. Means Company,2000-10 The 20th annual edition of this guide can help professionals spend less time on estimates This all in one resource for smarter more reliable estimating is packed with industry standard reliable costs for any phase of construction Includes information on developing square foot assemblies or unit price estimates Open Shop Crew Tables detailing labor and equipment costs and more **The Building Environment** Vaughn Bradshaw,2010-09-29 Get the updated guide to active and passive control systems for buildings To capitalize on today s rapidly evolving specialized technologies architects designers builders and contractors work together to plan the mechanical and electrical equipment that controls the indoor environment of a building The Building Environment Active and Passive Control Systems Third Edition helps you take advantage of design innovations and construction strategies that maximize the comfort safety and energy efficiency of buildings From active HVAC systems to passive methods lighting to on site power generation this updated edition explains how to strategically plan for and incorporate effective efficient systems in today s buildings It covers the underlying thermal theories and thermodynamic principles and focuses on design that enhances the building environment and minimizes the impact on the world s environment The Building Environment goes beyond the ABCs of HVAC and covers On site power generation including wind turbines solar photovoltaic cells fuel cells and more Plumbing systems fire protection signal systems conveying systems and architectural acoustics Procedures and or formulas for performing heat loss heat gain and energy use calculations determining the rate of heat flow calculating solar energy utilization doing load calculations and more Details on the latest building codes and standards references New information on the sustainable design of building systems and energy efficiency including new technologies The latest thinking and data on a building s impact on the environment indoor air quality and sick building syndrome Design economics including the payback period life cycle cost comparative value analysis and building commissioning A practical on the job tool for architects designers builders engineers contractors and other specialists this Third Edition is also a great reference for architecture students who will lead tomorrow s design teams **Means Building Construction Cost Data** ,1994

Exergy Silvio de Oliveira Junior,2012-11-02 Bridging the gap between concepts derived from Second Law of Thermodynamics and their application to Engineering practice the property exergy and the exergy balance can be a tool for

analyzing and improving the performance of energy conversion processes With the exergy analysis it is possible to evaluate the performance of energy conversion processes not only on a thermodynamics basis but also by including production costs and environmental aspects and impacts of the studied processes This comprehensive approach of the use of energy has as one of the most important feature the identification of sustainable ways of energy resources utilization Based on the fundamentals of the exergy concept its calculation graphical representations and exergy balances evaluation Exergy Production Cost And Renewability describes the application of detailed exergy and thermoeconomic analysis to power plants and polygeneration systems petroleum production and refining plants including hydrogen production chemical plants biofuel production routes combined production of ethanol and electricity aircraft systems design environmental impact mitigation processes and human body behavior The presented case studies aim at providing students researchers and engineers with guidelines to the utilization of the exergy and thermoeconomic analysis to model simulate and optimize real processes and industrial plants

*CIO* ,2007-10-01      **Institutions and Entrepreneurship** Wesley D. Sine,Robert J. David,2010-10-25  
Examines how the institutional environment affects entrepreneurial organizations and vice versa      **Energy Research Abstracts** ,1990      *Federal Register* ,2013-08      **Nuclear Regulatory Commission Issuances** U.S. Nuclear Regulatory Commission,U.S. Nuclear Regulatory Commission. Division of Technical Information and Document Control,2009      *Code of Federal Regulations* ,2002 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries

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