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*Means Estimating Handbook* 2003-03-26 this comprehensive reference covers the full spectrum of technical data required to estimate construction costs the book includes information on sizing productivity equipment requirements code mandated specifications design standards and engineering factors

**RSMeans Estimating Handbook** 2009 explains and demonstrates the methods and procedures of unit price estimating from the plans and specifications to the estimate summary special features fully updated sample estimate by masterformat division discussion of computerized estimating methods companion guide to means building construction cost data

*Means Unit Price Estimating Methods* 1993 using north america s most recognized construction cost data from rsmeans this step by step guide develops problem solving skills through over 300 sample problems and exercises all of the major construction items including site work concrete and masonry wood and metal framing doors and windows and more are covered access to a password protected web site is included which contains the instruction version of rsmeans cos works the electronic version of rs means building construction cost data and sample building plans and spreadsheets enabling you to practice creating a complete construction estimate

How to Estimate with RSMeans Data 2012-04-04 a practical hands on guide to real world construction estimating how to estimate with rsmeans data is the only instructional book on construction cost estimating that uses the most popular source of construction cost data rs means this updated fifth edition includes new coverage on the role of building information modeling bim in the estimating process and over 300 sample problems and exercises that show you how to apply cost data to your building project based on the rs means 2015 building construction cost data the companion website provides access to rs means costworks data allowing you to use real world numbers in your practice estimates and the included instructor s manual provides step by step solutions to problems in the book focused on the practical aspects of estimating this book emphasizes the application of estimating techniques which are transferable to any estimating software through problem solving and the ground up creation of complete construction project estimates estimating skills are fundamental to the construction industry and are applied by all parties at all levels throughout the industry this book is a hands on guide to the techniques and tools used to create a thorough estimate with plenty of opportunities for practice apply cost data to all aspects of the building project practice your skills on over 300 sample problems construct a complete estimate using rsmeans besides being an essential construction skill learning estimating helps you become familiar with reading and understanding construction blueprints and how construction assemblies are built mastery of these vital skills is important to your future career and how to estimate with rsmeans data is your ideal guide to a solid foundation

**How to Estimate with RSMeans Data** 2020-03-31 this updated edition includes over 300 sample estimating problems to show how to estimate a wide range of construction elements two sets of plans allow users to practice estimating techniques in the context of an actual project includes a fully functional instructional version of means costworks cd rom

**How to Estimate with Means Data & CostWorks** 2002 get the confidence and know how you need to deliver more accurate cost estimates and improve profitability the 73rd edition of this bestselling cost guide has been updated and expanded to provide you with the information you need to estimate projects with confidence and accuracy improve project planning and budgeting reduce risk access detailed construction costs arranged in the csi masterformat 2010 system and leverage the resources available in the reference section to construct a winning estimate

RSMeans Building Construction Cost Data 2014-09-29 the building construction cost data 2011 is the most used quoted and respected unit price guide available to the construction industry it is the professional estimator s first choice of reliable price data for accurate budgeting and estimating

Building Construction Cost Data 2011 2010 means building construction cost data 1999 is the most used most quoted most respected unit price guide available to the construction industry it is the professional estimator s first choice for reliable unit costs and it is available in a fully metric edition

**Means Unit Price Estimating** 1986 the most used quoted and respected unit price guide available to the construction industry it is the professional estimator s first choice of reliable price data for accurate budgeting and estimating

**BCCD, 1999** 1998-11-01 how to succeed in the construction business step by step guidelines for estimating to be competitive contractors and homebuilders need to know how to generate complete accurate estimates for labor and material costs this book guides readers through the entire estimating process explaining in detail how to put together a reliable estimate that can be used not only for budgeting but also for developing a schedule managing a project dealing with contingencies and ultimately making a profit completely revised and updated to reflect the new csi masterformat 2010tm system the second edition of this practical guide

describes estimating techniques for each building system and how to apply them according to the latest industry standards cost considerations and quantity takeoff and pricing are included for virtually every type of work found in residential and light commercial projects from demolition concrete and masonry to windows and doors siding roofing mechanical and electrical systems finish work and site construction complete with many new graphics and references to professional construction cost databases the new edition provides experienced contractors and novices alike with essential information on how to correctly interpret plans and specifications reflecting updates to contract documents since the first edition computer estimating techniques and new estimating software for performing quantity takeoff the best methods for conceptual estimating as well as the extremely useful topic of parametric estimating how to allocate the right amounts for profit and contingencies and other hard to find professional guidance how a unit price estimate is built along with labor issues and budgeting for subcontractor work

*Building Construction Cost Data* 2009-09-01 this comprehensive reference explains everything you need to know about taking off and pricing detailed unit price construction estimates the book takes you through every step of the estimating process from receipt of the plans to detailed quantity takeoffs and pricing to bidding strategies and finally cost control also includes electronic estimating forms you can access to download and customize from the book's own website organized for quick reference the book features estimating guidance for every segment of construction by CSI MasterFormat division the most recognized industry standard for organizing construction projects and costs checklists and forms to streamline the estimating process what to watch out for common errors and omissions how to calculate and apply direct and indirect costs including overhead and profit a complete fully updated sample cost estimate an appendix with labor hours for common construction operations

Estimating Building Costs for the Residential and Light Commercial Construction Professional 2012-04-30 this working handbook provides invaluable assistance for estimating and planning today's more complex urban and suburban heavy construction rehabilitation projects means heavy construction handbook is designed to simplify the task by providing relevant information and advice for the problem at hand whether it's selecting the right number of haulers for a load and haul job choosing the right method of compaction or projecting equipment repair and maintenance costs you'll find a tremendous range of expert advice on every aspect of heavy construction work including guidance for using RSMeans cost data to prepare highly reliable estimates features special benefits of this unique handbook explains the business aspects of buying vs leasing maintaining and accounting for equipment includes a major section on site evaluation and hazardous wastes provides a comprehensive understanding of heavy construction operations and equipment explains techniques for hazardous waste site assessment and remediation provides guidance for analyzing and estimating heavy construction on a unit price basis explains and illustrates the math of heavy construction with formulas and sample calculations solutions to a variety of productivity and operational problems provides a substantial appendix of productivity and other reference data for estimating and project planning explains successful management and supervision approaches including guidance for those who oversee the work

*Unit Price Estimating Methods* 2007-05-22 means building construction cost data 2002 is the most used most quoted most respected unit price guide available to the construction industry it is the professional estimator's first choice for reliable unit costs and it is available in a fully metric edition under executive order from the president all federal government agencies must begin to design and build their projects in metric there are already billions of dollars of metric designed construction under way be prepared to estimate this work with confidence that your costs will be on the money in metric

Means Heavy Construction Handbook 1993-02-23 RSMeans cost data student edition provides a thorough introduction to cost estimating in a self-contained print and online package with clear explanations and a hands-on example-driven approach it is the ideal reference for students and new professionals who need to learn how to perform cost estimating for building construction features include commercial and residential construction cost data in print and online formats complete how-to guidance on the essentials of cost estimating a supplemental website with plans specifications problem sets and a full sample estimate with more than 930 location factors in the United States and Canada the data includes up-to-date system prices for more than 100 standard assemblies and in-place costs for thousands of alternates making it easy to customize budget estimates and compare system costs unit prices organized in MasterFormat 2010 1 general requirements 2 existing conditions 3 concrete 4 masonry 5 metals 6 woods plastics composites 7 thermal moisture protection 8 openings 9 finishes 10 specialties 11 equipment 12 furnishings 13 special construction 14 conveying equipment 21 fire suppression 22 plumbing 23 heating ventilating air conditioning 26 electrical 27 communications 28 electronic safety security 31 earthwork 32 exterior improvements 33 utilities assemblies a substructure b shell c interiors d services e equipment furnishings f special construction g

building site work reference information equipment rental costs crews cost indexes reference tables square foot costs

*Building Construction Cost Data 2001-11* an easy to use tool for estimating heating ventilating and air conditioning systems with up to date cost data and estimating examples this all in one reference gives you the accepted standards and procedures for takeoff and pricing hvac systems as well as piping plumbing and fire protection includes all of the major mechanical systems in new building construction the book will show you how to evaluate mechanical plans and specs so you can estimate all cost components measure quantify and perform takeoffs for materials labor and equipment identify and correctly apply direct and indirect costs including overhead and profit use forms to improve accuracy and efficiency with electronic forms now available on the book's own website compare materials and methods and select the most cost effective way to get the job done train new estimators with clear instructions for estimating the mechanical trades make the best use of RSMeans mechanical cost data and RSMeans plumbing cost data organized for easy reference the book gives you quick access to whatever aspect of mechanical estimating you need it includes a glossary of mechanical terms and definitions plus symbols used on mechanical plans useful formulas checklists and conversion tables

*RSMeans Cost Data, + Website 2012-04-10* the most used quoted and respected unit price guide available to the construction industry it is the professional estimator's first choice of reliable price data for accurate budgeting and estimating means building construction cost data 2008 book contains unit costs for more than 23 500 building components these costs are carefully prepared from the experience of thousands of contractors and suppliers in the twelve months just before the book is published the 2008 reference section provides the depth of technical detail needed to estimate projects with precision and expertise this invaluable supplemental information is not found in any other cost reference

*Means Mechanical Estimating Methods: Takeoff & Pricing for HVAC & Plumbing, Updated 4th Edition 2007-08-23* answers all your questions about preparing competitive landscape construction estimates means landscape estimating is a thorough easy reading organized working tool that talks you through every step of preparing effective bids and estimates in a minimum of time plus guidance for planning jobs and marketing your company written by an award winning landscape designer and contractor this edition of means landscape estimating features an updated sample estimate new productivity information and reproducible forms it includes a chapter on how to use means site work landscape cost data as a pricing resource

*Building Construction Cost Data, 2008 2007* estimators need to understand the consequences of entering into a contract often defined by complex conditions and documents as well as to appreciate the technical requirements of the project estimating and tendering for construction work 5th edition explains the job of the estimator through every stage from early cost studies to the creation of budgets for successful tenders this new edition reflects recent developments in the field and covers new tendering and procurement methods the move from basic estimating to cost planning and the greater emphasis placed on partnering and collaborative working the new rules of measurement nrm1 and 2 and examines ways in which practicing estimators are implementing the guidance emerging technologies such as bim building information modelling and estimating systems which can interact with 3d design models with the majority of projects procured using design and build contracts this edition explains the contractor's role in setting costs and design statements to inform and control the development of a project's design clearly written and illustrated with examples notes and technical documentation this book is ideal for students on construction related courses at hnc hnd and degree levels it is also an important source for associated professions and estimators at the outset of their careers

*Means Landscape Estimating 1991* simplify the estimating process with the latest data materials and practices electrical estimating methods fourth edition is a comprehensive guide to estimating electrical costs with data provided by leading construction database RSMeans the book covers the materials and processes encountered by the modern contractor and provides all the information professionals need to make the most precise estimate the fourth edition has been updated to reflect the changing materials techniques and practices in the field and provides the most recent means cost data available the complexity of electrical systems can make accurate estimation difficult but this guide contains all the necessary information in one place an electrical estimate represents the total cost for materials labor overhead and profit but accuracy is virtually impossible without a basic knowledge of the field and real world experience in the type of work required inaccurate estimates lead to problems with customer satisfaction which often create payment issues a thorough complete and accurate estimate is in the best interest of all parties involved in the work electrical estimating methods provides more than just data detailed discussions about the work itself help highlight factors that may escape notice and access to the latest cost data helps tie everything together features include discussion of current equipment materials and processes means data for both residential and commercial projects case studies that

illustrate best practices online access to the latest means data for fast access on the job the book discusses specific situations as well as general practices and provides comprehensive guidance to the creation of a true current estimation of costs for electrical contractors and estimators electrical estimating methods contains must have content that simplifies the estimating process

Estimating and Tendering for Construction Work 2016-12-08 construction costs are moving in the western regions with certain materials and building products up 5 10 make the western edition of means building construction cost data 2000 your source for 100 up to date estimating cost data and information

**Electrical Estimating Methods** 2014-11-17 agile estimating and planning is the definitive practical guide to estimating and planning agile projects in this book agile alliance cofounder mike cohn discusses the philosophy of agile estimating and planning and shows you exactly how to get the job done with real world examples and case studies concepts are clearly illustrated and readers are guided step by step toward how to answer the following questions what will we build how big will it be when must it be done how much can i really complete by then you will first learn what makes a good plan and then what makes it agile using the techniques in agile estimating and planning you can stay agile from start to finish saving time conserving resources and accomplishing more highlights include why conventional prescriptive planning fails and why agile planning works how to estimate feature size using story points and ideal days and when to use each how and when to re estimate how to prioritize features using both financial and nonfinancial approaches how to split large features into smaller more manageable ones how to plan iterations and predict your team s initial rate of progress how to schedule projects that have unusually high uncertainty or schedule related risk how to estimate projects that will be worked on by multiple teams agile estimating and planning supports any agile semiagile or iterative process including scrum xp feature driven development crystal adaptive software development dsdm unified process and many more it will be an indispensable resource for every development manager team leader and team member

**Building Construction Cost Data, 2000** 1999 written by one of the nation s most highly regarded steel fabrication and erection specialists this comprehensive reference on estimating structural steel miscellaneous iron steel stairs and ornamental metal includes setting up a steel fabrication plant steel erection techniques and quality control evaluating the bid package structural steel takeoff and estimating contracts bonds insurance

*Agile Estimating and Planning* 2005-11-01 the construction professionals choice for cost data the 65th edition provides information for developing auditing and analyzing cost estimates access over 23 500 up to date unit prices for all phases of building

**Means Structural Steel Estimating** 1987 the essential authoritative guide to providing accurate systematic and reliable estimating for construction projects newly revised pricing and bidding for construction work is at the heart of every construction business and in the minds of construction consultants poor bids lead to poor performance and nobody wins new code of estimating practice examines the processes of estimating and pricing providing best practice guidelines for those involved in procuring and pricing construction works both in the public and private sectors it embodies principles that are applicable to any project regardless of size or complexity this authoritative guide has been completely rewritten to include much more contextual and educational material as well as the code of practice it covers changes in estimating practice the bidding process the fundamentals in formulating a bid the pre qualification process procurement options contractual arrangements and legal issues preliminaries temporary works cost estimating techniques risk management logistics resource and production planning computer aided estimating information and time planning resource planning and pricing preparation of an estimator s report bid assembly and adjudication pre production planning and processes and site production established standard for the construction industry providing the only code of practice on construction estimating prepared under the auspices of the chartered institute of building and endorsed by a range of other professional bodies completely rewritten since the 7th edition to include much more contextual and educational material as well as the core code of practice new code of estimating practice is an important book for construction contractors specialist contractors quantity surveyors cost consultants and for students of construction and quantity surveying

Means Building Construction Cost Data 2005-10-01 the acknowledged bible of the industry means building construction cost data offers unchallenged unit price reliability in an easy to use arrangement over 20 000 unit prices for 1996 are given

*Conceptual Cost Estimating Manual* 1996-06-14 rsmeans cost data rsmeans cost data for students rsmeans cost data student edition provides a thorough introduction to cost estimating in a self contained print and online package with clear explanations and a hands on example driven approach it is the ideal reference for students and new professionals who need to learn how to perform cost estimating for building construction

features include commercial and residential construction cost data in print and online formats complete how to guidance on the essentials of cost estimating a supplemental website with plans specifications problem sets and a full sample estimate with more than 930 location factors in the united states and canada the data includes up to date system prices for more than 100 standard assemblies and in place costs for thousands of alternates making it easy to customize budget estimates and compare system costs unit prices organized in masterformatm 2010 1 general requirements 2 existing conditions 3 concrete 4 masonry 5 metals 6 woods plastics composites 7 thermal moisture protection 8 openings 9 finishes 10 specialties 11 equipment 12 furnishings 13 special construction 14 conveying equipment 21 fire suppression 22 plumbing 23 heating ventilating air conditioning 26 electrical 27 communications 28 electronic safety security 31 earthwork 32 exterior improvements 33 utilities assemblies a substructure b shell c interiors d services e equipment furnishings f special construction g building site work reference information equipment rental costs crews cost indexes reference tables square foot costs rsmeans is the leading source of cost data for construction in north america visit rsmeans.com to learn more

**New Code of Estimating Practice** 2018-05-29 the rics new rules of measurement mean that the construction industry now has a way of allowing a more consistent approach to the measurement and estimating of buildings from the start of a project right through until the end and beyond estimating and cost planning using the new rules of measurement offers comprehensive guidance on all the technical competencies concerned with estimating throughout the precontract stages it provides a full commentary to the nrm with detailed and comprehensive examples of how to measure estimates and cost plans in accordance with this new prescriptive approach for both students and practitioners the acquisition of technical competencies is by practice so this book offers step by step worked examples to follow as well as an exercise on each topic key features helps dispel anxieties about using a new method in an important area of fee generation based on the author's successful roadshows organised by the rics to promote the nrm companion websites provide support for learning ostrowskiquantities.com and wiley.com go ostrowski estimating

**Means Building Construction Cost Data, 1996** 1995-11 now in its third edition this estimating guide offers comprehensive coverage of all aspects of plumbing residential commercial industrial and medical systems the most common plumbing materials and methods subsystems and components pricing quantities for an estimate and calculating markup preparing bids best techniques for using means plumbing cost data sample takeoff and estimate forms includes special sections on change order analysis estimating for additions and alterations to existing systems also covers budget and assemblies estimating a complete sample estimate shows you how to perform each step in the estimating process making it easy to follow the authors methods

**RSMeans Cost Data** 2012-02-21 simplify the estimating process with the latest data materials and practices electrical estimating methods fourth edition is a comprehensive guide to estimating electrical costs with data provided by leading construction database rsmeans the book covers the materials and processes encountered by the modern contractor and provides all the information professionals need to make the most precise estimate the fourth edition has been updated to reflect the changing materials techniques and practices in the field and provides the most recent means cost data available the complexity of electrical systems can make accurate estimation difficult but this guide contains all the necessary information in one place an electrical estimate represents the total cost for materials labor overhead and profit but accuracy is virtually impossible without a basic knowledge of the field and real world experience in the type of work required inaccurate estimates lead to problems with customer satisfaction which often create payment issues a thorough complete and accurate estimate is in the best interest of all parties involved in the work electrical estimating methods provides more than just data detailed discussions about the work itself help highlight factors that may escape notice and access to the latest cost data helps tie everything together features include discussion of current equipment materials and processes means data for both residential and commercial projects case studies that illustrate best practices online access to the latest means data for fast access on the job the book discusses specific situations as well as general practices and provides comprehensive guidance to the creation of a true current estimation of costs for electrical contractors and estimators electrical estimating methods contains must have content that simplifies the estimating process

**Estimating and Cost Planning Using the New Rules of Measurement** 2013-09-10 industrial piping and equipment estimating manual second edition delivers a comprehensive overview of information that engineers estimators and managers need to develop estimates and create bids packed with worksheets covering combined and simple cycle power plants refineries compressor stations ethanol hydrogen and biomass plants this reference helps construction engineers and estimators create bids where scope and quantity differences can be identified and project impacts estimated this updated manual provides a comprehensive accurate method for compiling piping and equipment man hour estimates for industrial process plants including solar

geothermal and biomass energy this comprehensive current manual details scopes of work based on process and increased safety in field erection estimating methods and statistical applications reduce errors for estimators to produce accurate estimates making it an ideal go to reference for estimators engineers and managers with a level of detail and equipment breakdown necessary for today's complex industrial operations explains estimating methods scopes of work man hour data tables and estimate sheets to produce direct craft man hour estimates rfps and field change orders includes scopes of work and man hour data tables for any complexity of design bid and contract identifies quantity differences using the comparison method to eliminate impacts between proposed and previously installed equipment represents a broad mix of energy sources including combined and simple cycle power plants refineries hydrogen plants biomass ethanol and geothermal power plants compressor stations and wastewater treatment plants

**RSMeans Plumbing Estimating Methods** 2003-12-22 a unique cost reference updated and expanded for architects engineers contractors building owners and managers green building is no longer a trend since the publication of the widely read first edition of this book green building has become a major advancement in design and construction building codes and standards have adopted much stricter energy efficiencies businesses institutions and communities have discovered huge savings along with health and marketing advantages in sustainable building private facilities as well as public buildings for federal state and local governments are increasingly required to design and build sustainably in both new construction and renovation this third edition has been updated with the latest in green building technologies design concepts standards and costs the chapters case studies and resources give you practical guidance on green building including the latest on green building approaches materials rating systems standards and guidelines energy efficiencies implementing energy modeling tools designing and specifying as well as commissioning green building projects often specified products and materials as well as a sample spec goals and techniques for health comfort and productivity evaluating the cost versus value of green products over their life cycle low cost green strategies and special economic incentives and funding building deconstruction and cost considerations with a new chapter on greening of commercial real estate this reference is a one stop resource for the latest in green building approaches and implementation the contributors all prominent leaders in green building include mark kalin faia fcsi author of the original greenspec andy walker ph d pe senior engineer with nrel joseph macaluso aace certified cost consultant

**Electrical Estimating Methods** 2014-10-22 this manual shows you in simple easy to understand language how to calculate the amount of dirt you'll have to move the cost of owning and operating the machines you'll do it with and finally how to assign bid prices to each part of the job using clear detailed illustrations and examples the author makes it easy to follow and duplicate his system the book ends with a complete sample estimate from the take off to completing the bid sheet included in this book how to set up use an organized logical estimating system how to read plans specs why a site visit is mandatory how to assess accessibility job difficulty how soil characteristics can affect your estimate the best ways to evaluate subsurface conditions figuring your overhead how to get the information you need from contour maps when you have to undercut dealing with irregular regions and odd areas factors for estimating swell and shrinkage balancing the job spoil borrow calculating machine owning operating costs the two common methods of estimating earthwork quantities

**Industrial Piping and Equipment Estimating Manual** 2023-10-17 this work provides principles techniques for the evaluation of construction design emphasizing the importance of strong analysis skills exploring estimation it aims to provide readers with a balanced cohesive overview of these two areas

**Green Building** 2010-11-11 construction calculations is a manual that provides end users with a comprehensive guide for many of the formulas mathematical vectors and conversion factors that are commonly encountered during the design and construction stages of a construction project it offers readers detailed calculations applications and examples needed in site work cost estimation piping and pipefitting and project management the book also serves as a refresher course for some of the formulas and concepts of geometry and trigonometry the book is divided into sections that present the common components of construction the first section of the book starts with a refresher discussion of unit and systems measurement its origin and evolution the standards of length mass and capacity terminology and tables and notes of metric units and british units of measurements the following concepts are presented and discussed throughout the book conversion tables and formulas including the metric conversion law and conversion factors for builders and design professionals calculations and formulas of geometry trigonometry and physics in construction rudiments of excavation classification use of material measurement and payment soil classification and morphology including its physicochemical properties formulas and calculations needed for soil tests and evaluations and for the design of retaining structures calculations relating to concrete and masonry

calculations of the size weight of structural steel and other metals mechanical properties of wood and processing of wood products calculations relating to sound and thermal transmission interior finishes plumbing and hvac calculations electrical formulas and calculations construction managers and engineers architects contractors and beginners in engineering architecture and construction will find this practical guide useful for managing all aspects of construction work in and convert between building dimensions including metric built in right angle solutions areas volumes square ups complete stair layouts roof rafter and framing solutions circle arcs circumference segments

*Estimating Excavation* 1997 the third edition offers expert guidance on estimating virtually any type of electrical system now completely updated to the latest versions of csi masterformat uniformat ii and rsmeans electrical cost data includes samples estimates and cost information including 70 modules and sections on uninterruptible power supply systems fiber optic cable systems and a new chapter on computerized estimating methods

**Construction Cost Analysis and Estimating** 2001 this step by step guide takes you through all the major construction items now with expanded coverage of site work concrete and masonry wood and metal framing doors and windows finish work and roofing a new chapter provides professional estimating guidance for plumbing including fire suppression mechanical and electrical over 300 estimating exercises show you in detail how to estimate for a broad range of construction items and systems including how to calculate general conditions and equipment costs additional features include expert advice on preliminary or design stage estimates such as when and how to use assemblies and square foot estimating techniques tips from professional practitioners including widely used formulas and rules of thumb guidance on how to use the features of costworks estimator features includes a fully functional instructional version of building construction cost data cd rom learn how to export your cost lists to a spreadsheet or customize them using costworks estimator the cd also includes cost data organized according to the 2004 csi masterformat numbering system two sets of plans residential and light commercial to practice your estimating techniques in the context of an actual project fully worked out solutions to sample estimating problems

**Construction Calculations Manual** 2011-09-19

Means Electrical Estimating Methods 1995-01

Quotations from Chairman Mao Tsetung 1990

**How to Estimate with Means Data and CostWorks** 2006-01-01



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