

## EXAMPLE

# *Cooling Load Calculations and Principles*

## Cooling Load Example in US units

□ An office building in *Montreal area* requires air conditioning for a *single story building*. The following data is gathered:

- Location: Montreal
- Type of building: Office
- Number of floors: 1
- Floor area: 64 ft x 80 ft = 5120 ft<sup>2</sup>
- Floor-to-floor Height: 15 ft
- Window area: 20 % of the wall area
- Windows: Double glazed

## Cooling Load Example in US units

Wall: Wall number 13 [ $U = 0.2$  Btu/h.ft<sup>2</sup>.F, as per table 33A\*, pg 28.46

Roof: Roof number 13 [ $U = 0.2$  Btu/h.ft<sup>2</sup>.F, as per table 34, pg 28.47]

# Cooling Load Calculation Example

**Hank Rutkowski**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

## Cooling Load Calculation Example:

**Load Calculation Applications Manual** Jeffrey D. Spitler, 2010-01-01 Focuses on the radiant time series and heat balance methods for calculating cooling loads in nonresidential buildings The intended audience is relatively new engineers who are learning to do load calculations as well as experienced engineers who wish to learn the radiant time series method Provided by publisher

**Manual J - Residential Load Calculation** Hank Rutkowski, 2011-11-01 Manual J 8th Edition is the national ANSI recognized standard for producing HVAC equipment sizing loads for single family detached homes small multi unit structures condominiums town houses and manufactured homes This new version incorporates the complete Abridged Edition of Manual J The manual provides quick supplemental details as well as supporting reference tables and appendices A proper load calculation performed in accordance with the Manual J 8th Edition procedure is required by national building codes and most state and local jurisdictions

**Whole System Design** Peter Stasinopoulos, Michael H. Smith, Karlson Hargroves, Cheryl Desha, 2013-01-11 Whole System Design is increasingly being seen as one of the most cost effective ways to both increase the productivity and reduce the negative environmental impacts of an engineered system A focus on design is critical as the output from this stage of the project locks in most of the economic and environmental performance of the designed system throughout its life which can span from a few years to many decades Indeed it is now widely acknowledged that all designers particularly engineers architects and industrial designers need to be able to understand and implement a whole system design approach This book provides a clear design methodology based on leading efforts in the field and is supported by worked examples that demonstrate how advances in energy materials and water productivity can be achieved through applying an integrated approach to sustainable engineering Chapters 1 5 outline the approach and explain how it can be implemented to enhance the established Systems Engineering framework Chapters 6 10 demonstrate through detailed worked examples the application of the approach to industrial pumping systems passenger vehicles electronics and computer systems temperature control of buildings and domestic water systems Published with The Natural Edge Project the World Federation of Engineering Organizations UNESCO and the Australian Government

**MEP Load Calculation Quick Reference & toolkit** Charles Nehme, In the complex and ever evolving world of building design the accurate calculation of mechanical electrical and plumbing MEP loads is not merely a technical step it s the foundation of a successful project Whether ensuring a building is comfortable and energy efficient or guaranteeing its systems can handle peak demand precise load calculations are paramount This book MEP Load Calculation Quick Reference it s a field guide designed to be your go to reference for tackling real world challenges in MEP design

**Simplified Design of HVAC Systems** William Bobenhausen, 1994-04-14 A practical overview of what to consider when designing a building s heating cooling ventilating and humidifying systems along with their space power control and other requirements Includes the latest concepts applications basic design problems and their solutions Packed with examples to facilitate understanding

**Cooling and Heating Load Calculation Manual**, 1980      *Refrigeration Engineering*, 1941 English abstracts from Kholodil naia tekhnika      HVAC Cooling Load - Calculations and Principles A. Bhatia, 2014-10-16 Heating and cooling load calculations are carried out to estimate the required capacity of heating and cooling systems which can maintain the required conditions in the conditioned space To estimate the required cooling or heating capacities one has to have information regarding the design indoor and outdoor conditions specifications of the building specifications of the conditioned space such as the occupancy activity level various appliances and equipment used etc and any special requirements of the particular application For comfort applications the required indoor conditions are fixed by the criterion of thermal comfort while for industrial or commercial applications the required indoor conditions are fixed by the particular processes being performed or the products being stored Generally heating and cooling load calculations involve a systematic and stepwise procedure which account for all the building energy flows In practice a variety of methods ranging from simple rules of thumb to complex transfer function methods are used to arrive at the building loads This short quick book provides a procedure for preparing a manual calculation for cooling load using CLTD CLF method suggested by ASHRAE and includes two detailed examples For more advanced methods such as TFM the reader should refer to ASHRAE and other handbooks Learning Objective At the end of this course the student should be able to

- 1 Understand the basic terminology and definitions related to air conditioning load calculations
- 2 Explain the differences between heating and cooling load design considerations
- 3 Explain the difference between 1 space heat gain v s cooling load 2 space cooling v s cooling load and 3 external loads v s internal loads
- 4 Differentiate between sensible and latent loads
- 5 List commonly used methods for estimating cooling loads
- 6 Estimate the internal and external cooling loads using CLTD CLF method from building specifications design indoor and outdoor conditions occupancy etc
- 7 Describe various equations and the information sources to determine conductive load through opaque building elements
- 8 Describe various equations and information sources to determine the solar transmission load through glazing
- 9 Describe various equations and information sources to determine the internal load due to people lights and power appliances
- 10 Determine the supply air flow rate
- 11 Learn by examples the detailed methodology to cooling load calculations
- 12 Learn the functional parameters of software programs such as TRACE 700 and CHVAC

**Analysis and Design of Heating, Ventilating, and Air-Conditioning Systems, Second Edition** Herbert W. Stanford III, Adam F. Spach, 2019-04-01 Analysis and Design of Heating Ventilating and Air Conditioning Systems Second Edition provides a thorough and modern overview of HVAC for commercial and industrial buildings emphasizing energy efficiency This text combines coverage of heating and air conditioning systems design with detailed information on the latest controls technologies It also addresses the art of HVAC design along with carefully explained scientific and technical content reflecting the extensive experience of the authors Modern HVAC topics are addressed including sustainability IAQ water treatment and risk management vibration and noise mitigation and maintainability from a practical point of view

Providing for energy efficiency in homes and small buildings American Association for Vocational Instructional Materials, 1980

*Handbook of Food Process Design, 2 Volume Set* Jasim Ahmed, Mohammad Shafiur Rahman, 2012-05-21 In the 21st Century processing food is no longer a simple or straightforward matter. Ongoing advances in manufacturing have placed new demands on the design and methodology of food processes. A highly interdisciplinary science, food process design draws upon the principles of chemical and mechanical engineering, microbiology, chemistry, nutrition, and economics and is of central importance to the food industry. Process design is the core of food engineering and is concerned at its root with taking new concepts in food design and developing them through production and eventual consumption. *Handbook of Food Process Design* is a major new 2 volume work aimed at food engineers and the wider food industry. Comprising 46 original chapters written by a host of leading international food scientists, engineers, academics, and systems specialists, the book has been developed to be the most comprehensive guide to food process design ever published. Starting from first principles, the book provides a complete account of food process designs including heating and cooling, pasteurization, sterilization, refrigeration, drying, crystallization, extrusion, and separation. Mechanical operations including mixing, agitation, size reduction, extraction, and leaching processes are fully documented. Novel process designs such as irradiation, high pressure processing, ultrasound, ohmic heating, and pulsed UV light are also presented. Food packaging processes are considered, and chapters on food quality, safety, and commercial imperatives portray the role of process design in the broader context of food production and consumption.

Weatherization and Energy Efficiency Improvement for Existing Homes Moncef Krarti, 2016-04-19 Providing a proven set of energy efficiency measures and opportunities for saving energy and reducing operating costs for existing homes, this volume presents general tools and procedures for performing home weatherization such as insulation improvements as well as methods to reduce air leakage. The author describes several techniques and technologies.

*Principles of Heating, Ventilation and Air Conditioning with Worked Examples* Nihal E. Wijesundera, 2015-11-25 This book presents the most current design procedures in heating, ventilation, and air conditioning (HVAC) available in handbooks like the ASHRAE American Society of Heating, Refrigeration and Air Conditioning Engineers Handbook 2013 Fundamentals in a way that is easier for students to understand. Every effort is made to explain in detail the fundamental physical principles that form the basis of the various design procedures. A novel feature of the book is the inclusion of about 15 worked examples in each chapter, carefully chosen to highlight the diverse aspects of HVAC design. The solutions for the worked examples clarify the physical principles behind the design method. In addition, there are problems at the end of each chapter for which numerical answers are provided. The book includes a series of MATLAB programs that may be used to solve realistic HVAC design problems which in general require extensive and repetitive calculations.

**Mechanical and Electrical Equipment for Buildings** Walter T. Grondzik, Alison G. Kwok, 2014-09-22 The definitive guide to environmental control systems, updated with emerging technology and trends. The Interactive Resource Center is an online learning environment where instructors

and students can access the tools they need to make efficient use of their time while reinforcing and assessing their understanding of key concepts for successful understanding of the course An access card with redemption code for the online Interactive Resource Center is included with all new print copies or can be purchased separately If you rent or purchase a used book with an access code the access code may have been redeemed previously and you may have to purchase a new access code ISBN 978111899616 4 The online Interactive Resource Center contains resources tied to the book such as Interactive Animations Interactive Self tests Interactive Flashcards Case Studies Respondus Testbank instructors only Instructor s Manual over 200 pages including additional resources Instructors only Roadmap to the 12th Edition Instructors only Student Guide to the Textbook Mechanical and Electrical Equipment for Buildings Twelfth Edition is the industry standard reference that comprehensively covers all aspects of building systems With over 2 200 drawings and photographs the book discusses basic theory preliminary building design guidelines and detailed design procedure for buildings of all sizes The updated twelfth edition includes over 300 new illustrations plus information on the latest design trends codes and technologies while the companion website offers new interactive features including animations additional case studies quizzes and more Environmental control systems are the components of a building that keep occupants comfortable and help make the building work Mechanical and Electrical Equipment for Buildings covers both active controls like air conditioners and heaters as well as passive controls like daylighting and natural ventilation Because these systems comprise the entire energy use and costs of a building s life the book stresses the importance of sustainability considerations during the design process by both architects and builders Authored by two leading green design educators MEEB provides the most current information on low energy architecture including topics like Context comfort and environmental resources Indoor air quality and thermal control Illumination acoustics and electricity Fire protection signal systems and transportation Occupant comfort and building usability are the most critical factors in the success of a building design and with environmental concerns mounting it s becoming more and more important to approach projects from a sustainable perspective from the very beginning As the definitive guide to environmental control systems for over 75 years Mechanical and Electrical Equipment for Buildings is a complete resource for students and professionals alike

**Code of Federal Regulations** ,1994 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries

The Code of Federal Regulations of the United States of America ,1978 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government

**Proceedings of the 8th International Symposium on Heating, Ventilation and Air Conditioning** Angui Li,Yingxin Zhu,Yuguo Li,2013-09-24 Proceedings of the 8th International Symposium on Heating Ventilation and Air Conditioning is based on the 8th International Symposium of the same name ISHVAC2013 which took place in Xi an on October 19 21 2013 The conference series was initiated at Tsinghua University in 1991 and has since

become the premier international HVAC conference initiated in China playing a significant part in the development of HVAC and indoor environmental research and industry around the world This international conference provided an exclusive opportunity for policy makers designers researchers engineers and managers to share their experience Considering the recent attention on building energy consumption and indoor environments ISHVAC2013 provided a global platform for discussing recent research on and developments in different aspects of HVAC systems and components with a focus on building energy consumption energy efficiency and indoor environments These categories span a broad range of topics and the proceedings provide readers with a good general overview of recent advances in different aspects of HVAC systems and related research As such they offer a unique resource for further research and a valuable source of information for those interested in the subject The proceedings are intended for researchers engineers and graduate students in the fields of Heating Ventilation and Air Conditioning HVAC indoor environments energy systems and building information and management Angui Li works at Xi an University of Architecture and Technology Yingxin Zhu works at Tsinghua University and Yuguo Li works at The University of Hong Kong

*Building Technology* Benjamin Stein,1996 The complete guide to building technology This comprehensive guide provides complete coverage of every aspect of the building technologist s profession It details design and installation procedures describes all relevant equipment and hardware and illustrates the preparation of working drawings and construction details that meet project specifications code requirements and industry standards The author establishes procedures for professional field inspections and equipment operations tests provides real world examples from both residential and nonresidential construction projects and makes specific references to code compliance throughout the text This new edition incorporates changes in building codes advances in materials and design techniques and the emergence of computer aided design CAD while retaining the logical structure and helpful special features of the first edition More than 1 100 drawings tables and photographs complement and illustrate discussions in the text Topics covered include Heating ventilating and air conditioning systems equipment and design Plumbing systems equipment and design Electrical and lighting systems equipment and design Testing adjusting and balancing procedures for all building systems Every aspect of the building technologist s profession from the creation of working drawings through on site supervision and systems maintenance Extensive appendices include conversion factors duct design data test report forms for use in field work design forms and schedules for electrical HVAC and plumbing work and more

**Architecture** United States. Naval Facilities Engineering Command,1984

*Building Performance Simulation for Design and Operation* Jan L.M. Hensen,Roberto Lamberts,2019-04-24 When used appropriately building performance simulation has the potential to reduce the environmental impact of the built environment to improve indoor quality and productivity as well as to facilitate future innovation and technological progress in construction Since publication of the first edition of Building Performance Simulation for Design and Operation the discussion has shifted from a focus on software features to a new agenda which

centres on the effectiveness of building performance simulation in building life cycle processes This new edition provides a unique and comprehensive overview of building performance simulation for the complete building life cycle from conception to demolition and from a single building to district level It contains new chapters on building information modelling occupant behaviour modelling urban physics modelling urban building energy modelling and renewable energy systems modelling This new edition keeps the same chapter structure throughout including learning objectives chapter summaries and assignments Moreover the book Provides unique insights into the techniques of building performance modelling and simulation and their application to performance based design and operation of buildings and the systems which service them Provides readers with the essential concepts of computational support of performance based design and operation Provides examples of how to use building simulation techniques for practical design management and operation their limitations and future direction It is primarily intended for building and systems designers and operators and postgraduate architectural environmental or mechanical engineering students



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## Cooling Load Calculation Example Introduction

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