

# HEAT LOSS CALCULATIONS

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Rising energy costs over the last few years have prompted many homeowners to look for ways to reduce the cost of heating their homes. Fortunately, there are many investments which will result in energy savings. The variable costs and savings of these techniques, however, often make it difficult to choose the most appropriate measure. The purpose of this pamphlet is to simplify the selection of cost effective conservation investments. This will be achieved in the following ways:

1. Familiarize the reader with heat loss theory and formulas.
2. Estimate the heat lost through various components of the building shell by applying the formulas.
3. Prioritize conservation investments for existing homes by comparing estimates of heat loss from the building components.

## HEAT LOSS THEORY AND FORMULAS

While heat moves in three ways (radiation, convection, and conduction), most heat escapes from a home by convection and conduction. The examples used to illustrate the concepts will all refer to the house diagramed in Figure 1.

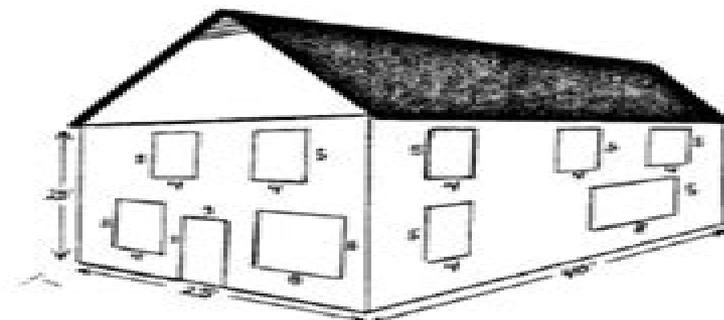


Figure 1

### Characteristics of Sample House

- Windows: single glazed; 440 sq.ft.
- Doors: solid core wood; no storm; 42 sq.ft.
- Walls: 2 x 4 framed 16" O.C. 2118 sq.ft.; uninsulated
- Ceiling: 2 x 4 truss; framed 24" O.C. 1000 sq.ft.; uninsulated
- Floor: 2 x 8; framed 24" O.C. 1000 sq.ft.; uninsulated
- Infiltration: 1.5 ACH; 20,000 ft.<sup>3</sup>
- Inside Temperature: 70°F.
- Outside Temperature: 24°F.
- Heating Degree Days: 4800

# Heat Transfer Calculations For Buildings

**British Standards Institute Staff**



## Heat Transfer Calculations For Buildings:

**Heat Transfer Calculations for Buildings** R. W. R. Muncey, 1979      **Heat and Mass Transfer in Buildings** Keith J. Moss, 2015-03-17 The second edition of this reliable text provides readers with a thorough understanding of the design procedures that are essential in designing new buildings and building refurbishment Covering the fundamentals of heat and mass transfer as essential underpinning knowledge this edition has been thoroughly updated and reflects the need for new building design and building refurbishment to feature low energy consumption and sustainable characteristics New additions include extended and updated worked examples two new appendices covering renewable energy systems and sustainable building engineering with startling conclusions This book is an invaluable guide for HND and degree level students of building services engineering as well as building built environment building engineering and architecture courses

*Building Heat Transfer* Morris Grenfell Davies, 2004-06-25 A third or more of the energy consumption of industrialized countries is expended on creating acceptable thermal and lighting conditions in buildings As a result building heat transfer is keenly important to the design of buildings and the resulting analytical theory forms the basis of most design procedures Analytical Theory of Building Heat Transfer is the first comprehensive reference of its kind a one volume compilation of current findings on heat transfer relating to the thermal behavior of buildings forming a logical basis for current design procedures

**Environmental Design of Urban Buildings** Mat Santamouris, 2013-06-17 This book provides a review of environmental and energy research with respect to urban building projects It describes how to overcome related challenges in environmental design of urban buildings The book discusses the passive and active environmental systems within building concepts

*Thermal Performance of Buildings. Transmission and Ventilation Heat Transfer Coefficients. Calculation Method* British Standards Institute Staff, 1917-08-16 Buildings Air changes Thermal conductivity Thermal design of buildings Ventilation Thermal transmittance Heat transfer coefficient Mathematical calculations Thermal environment systems Heat loss Performance Thermal behaviour of structures Heat transfer Thermal properties of materials Construction systems parts Thermal insulation

**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 *Proceedings of the 11th International Symposium on Heating, Ventilation and Air Conditioning (ISHVAC 2019)* Zhaojun Wang, Yingxin Zhu, Fang Wang, Peng Wang, Chao Shen, Jing Liu, 2020-03-19 This book presents selected papers from the 11th International Symposium on Heating Ventilation and Air Conditioning ISHVAC 2019 with a focus on HVAC techniques for improving indoor environment quality and the energy efficiency of heating and cooling systems Presenting inspiration for implementing more efficient and safer HVAC systems the book is a valuable resource for academic researchers engineers in industry and government regulators

**Energy Research Abstracts**, 1980 **Heating and Cooling of Buildings** Jan F. Kreider, Peter S. Curtiss, Ari Rabl, 2009-12-28 The art and the science of building systems design evolve continuously as designers practitioners and researchers all endeavor to improve the performance of buildings and the comfort and productivity of their occupants Retaining coverage from the original second edition while updating the information in electronic form *Heating and Cooling of Buildings Design for Efficiency Revised Second Edition* presents the technical basis for designing the lighting and mechanical systems of buildings Along with numerous homework problems the revised second edition offers a full chapter on economic analysis and optimization new heating and cooling load procedures and databases and simplified procedures for ground coupled heat transfer calculations The accompanying CD ROM contains an updated version of the *Heating and Cooling of Buildings* HCB software program as well as electronic appendices that include over 1 000 tables in HTML format that can be searched by major categories a table list or an index of topics Ancillary information is available on the book s website [www.hcbcentral.com](http://www.hcbcentral.com) From materials to computers this edition explores the latest technologies exerting a profound effect on the design and operation of buildings Emphasizing design optimization and critical thinking the book continues to be the ultimate resource for understanding energy use in buildings **Heat and Mass Transfer in Building Services Design** Keith Moss, 1998

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