



Calculate the ultimate loads for Beams on Gridlines 1, 2, A & B.

Dead Load and live load of slab panel = 6.8 kN/m^2 and 1.5 kN/m^2 respectively.

Beam sizes on gridlines 1, 2, A & B = $200 \times 450 \text{ mm}$

1. Establish tributary areas on beams

$$K = \frac{l_y}{l_x} = \frac{5800}{4800} = 1.208 < 2. \text{ Slab is Two way.}$$

Manual J8ae Load Calculation Examples

V. Paul Lang



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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

Solar Energy Technology Handbook E. W. Dickinson, 2018-05-04 The handbook for convenient use is divided into eight main units 1 The Solar Resource 2 Solar Thermal Collectors 3 Photovoltaics 4 Bioconversion 5 Wind Energy 6 Solar Energy Storage Systems 7 Applications of Solar Energy 8 Non technical Issues In addition there are three Appendixes containing unit conversion tables and useful solar data It became obvious early in this project that if proper coverage were to be given each of these areas it would be necessary to divide the handbook into two volumes The first six units constitute Part A Engineering Fundamentals and the last two units constitute Part B Applications Systems Design and Economics These volumes have been prepared primarily as reference books but it is felt that many of the sections will prove useful for practicing engineers scientists and students

Cooling and Heating Load Calculation Manual Faye C. McQuiston, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Jeffrey D. Spitler, 1992 Provide a comprehensive source of theory procedures and data for cooling and heating load calculations for other than residential buildings

HUD Minimum Property Standards: Solar heating and domestic hot water systems Center for Faith-Based and Community Initiatives (United States. Department of Labor), 1973

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

Intermediate Minimum Property Standards for Solar Heating and Domestic Hot Water Systems United States. Department of Housing and Urban Development,1977

Residential Equipment Selection Manual S , **Principles of Air Conditioning** V. Paul Lang,1987 **Load Calculation** ,1988 *Load Calculation for Residential Winter and Summer Air Conditioning* ,1986 *Handbook of Civil Engineering Calculations, Third Edition* Tyler G. Hicks,2016-07-04 Up To Date Techniques for Solving Any Civil Engineering Problem Perform complex design and construction calculations quickly and accurately with help from this thoroughly revised guide Handbook of Civil Engineering Calculations Third Edition features more than 3 000 logically organized calculations that align with the latest practices codes and standards You will get start to finish calculation procedures for Load Resistance Factor Design LRFD anti terrorism components enhanced building security green construction safe bridge design and environmentally sound water treatment All new steps to improve indoor air quality and protect structures from hurricanes tornadoes floods and waves are also discussed in this on the job resource This fully updated third edition covers Structural Steel Engineering and Design Reinforced and Pre stressed Concrete Engineering and Design Timber Engineering Soil Mechanics Surveying Route Design and Highway Bridges Fluid Mechanics Pumps Piping and Hydro Power Water Supply and Storm Water System Design Sanitary Wastewater Treatment and Control Engineering Economics *A Builder's Guide to Energy Efficient Homes* Georgia Institute of Technology. Engineering Experiment Station,1982 **CRSI Design Handbook** Concrete Reinforcing Steel Institute,Raymond C. Reese,1968 **Duct Design for Residential Winter and Summer Air Conditioning and Equipment Selection** ,1984 *Warm Air Heating & Air Conditioning Library* National Warm-Air Heating and Air Conditioning Association (U.S.),1961 *Handbook for Machine Designers, and Draftsmen* Frederick Arthur Halsey,1913 **Standard Handbook of Engineering Calculations, Fifth Edition** Tyler G. Hicks,2014-09-05 MORE THAN 5000 ESSENTIAL UP TO DATE CALCULATIONS FOR ENGINEERS Thoroughly revised with the latest data methods and code the new edition of this practical resource contains more than 5000 specific step by step calculation procedures for solving both common and uncommon engineering problems quickly and easily The calculations presented provide safe usable results for the majority of situations faced by practicing engineers worldwide The book fully describes each problem includes numbered calculation procedures provides workedout problems and offers related calculations in most instances This is an essential on the job manual as well as a handy reference for engineering licensing exam preparation Includes NEW calculation procedures for Load and resistance factor design LRFD Solar heating loads Geothermal energy engineering Transformer efficiency Thermodynamic analysis of a Linde system Design of a chlorination system for wastewater disinfection Determination of ground level pollutant concentration And many more Standard Handbook of Engineering Calculations Fifth Edition features detailed time saving calculations for Civil and structural engineering Architectural

engineering Mechanical engineering Electrical engineering Chemical and process plant engineering Water and wastewater engineering Environmental engineering

McGraw-Hill National Electrical Code 2008 Handbook, 26th Ed. Brian J. McPartland, Joseph F. McPartland, Frederic P. Hartwell, 2008-12-12 The 1 Guide to the 2008 NEC to Ensure that Electrical Work Passes Inspection on the First Try Completely revised and updated to reflect all 2008 Code changes McGraw Hill's National Electrical Code 2008 Handbook 26th Edition provides the essential put the code into practice guidance that users require in the field and in the office An industry bestseller for over 85 years this classic handbook helps decipher and interpret new Code changes and difficult and controversial rules With the new addition of Frederic P Hartwell to the author team this time tested reference has been rigorously revised and rewritten to cover all the information needed to meet 2008 Code requirements Covering every topic in the 2008 Code the coverage ranges from grounded conductors branch circuits feeders surge arresters wiring methods cables conduits and switches to hazardous locations emergency systems communications circuits and product safety standards McGraw Hill's National Electrical Code 2008 Handbook 26th Edition features a bind in card with a code that enables users to download the searchable e book and the following new coverage New rules terminology and definitions that modify key grounding concepts New rules for GFCIs and AFCIs Fire pumps Repair garage area classifications Solar photovoltaic systems including utility interactive inverters Extensive coverage of how to size conductors under all loading conditions Critical operations power systems COPS the new Article 708 on hardened facilities Inside this Practice Oriented Guide to the 2008 NEC Requirements for Electrical Installations Branch Circuits Feeders Services Surge Arresters Wiring Methods Cables Conduits Tubing Busways Wireways Raceways Fixture Wires Switches Appliances Generators Capacitors Storage Batteries Hazardous Locations Temporary Wiring Emergency Systems Communications Circuits Tables Examples And Much More

Masonry Design Manual James E. Amrhein, 1979

McGraw-Hill's National Electrical Code 2011 Handbook Brian J. McPartland, Frederic P. Hartwell, Joseph F. McPartland, 2011-04-04 The Most Complete Guide to the 2011 NEC Thoroughly revised and expanded with hundreds of pages of new material to reflect changes in the 2011 NEC McGraw Hill's National Electrical Code 2011 Handbook 27th Edition provides authoritative guidance and analysis to help you accurately interpret 2011 NEC rules Co author and working electrician Frederic P Hartwell who has participated in the NEC process for almost thirty years describes problems and difficulties in NEC provisions from an unbiased and practical perspective It does not duplicate NEC text and tables within it covers Designed as an essential companion to the 2011 NEC it contains over one third more explanatory material and more than 1000 diagrams and photos within its convenient 6 x 9 inch format Details on the background and rationale for specific code rules facilitate an in depth understanding of the meaning and application of those rules This must have on the job reference helps your work pass inspection the first time

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