

COOLING LOAD CALCULATION

CLASSROOM

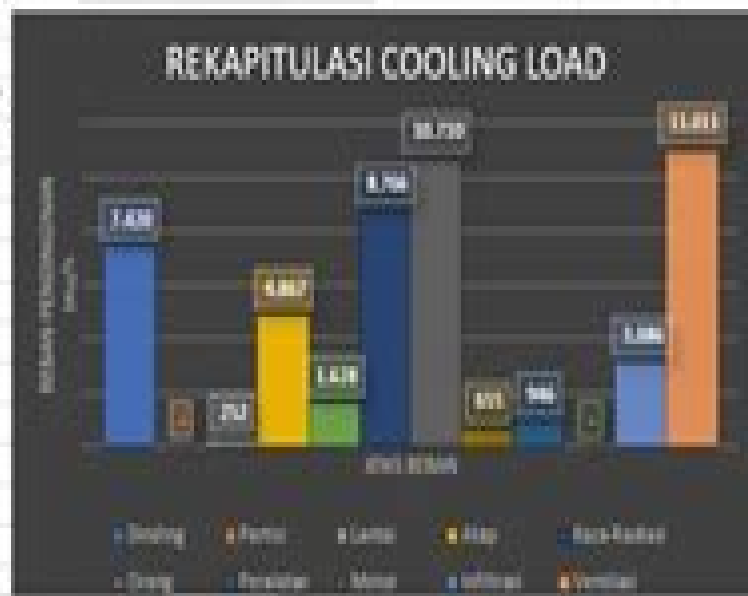
Project	: Classroom
Tanggal	: 17 Februari 2025
Desain Engineer	: Tito Riyanto
Code	: Cooling Load Temperature Difference (CLTD)

Sett. Point	
Temp	24 °C
RH	55 %

Outdoor Air	
Temp	31 °C
RH	61.1 %

Fungsi	:	Class room
Luas	:	60 m ²
Tinggi	:	3 m

No	Beban	Sensibel Wtu/h	Latent Wtu/h	Total Wtu/h
1	Dinding	7.428	-	7.428
2	Partisi	-	-	-
3	Lantai	252	-	252
4	Atap	4.887	-	4.887
5	Kaca Konduksi	1.628	-	1.628
6	Kaca Radiasi	8.768	-	8.768
7	Orang	3.015	3.015	10.720
8	Lampu	653	-	653



Z Chapter 9 Cooling Load

Mahmoud M. El-Halwagi



Z Chapter 9 Cooling Load:

Sustainable Design Through Process Integration Mahmoud M. El-Halwagi, 2017-08-08 Sustainable Design through Process Integration Fundamentals and Applications to Industrial Pollution Prevention Resource Conservation and Profitability Enhancement Second Edition is an important textbook that provides authoritative comprehensive and easy to follow coverage of the fundamental concepts and practical techniques on the use of process integration to maximize the efficiency and sustainability of industrial processes The book is ideal for adoption in process design and sustainability courses It is also a valuable guidebook to process chemical and environmental engineers who need to improve the design operation performance and sustainability of industrial plants The book covers pressing and high growth topics including benchmarking process performance identifying root causes of problems and opportunities for improvement designing integrated solutions enhancing profitability conserving natural resources and preventing pollution Written by one of the world's foremost authorities on integrated process design and sustainability the new edition contains new chapters and updated materials on various aspects of process integration and sustainable design The new edition is also packed with numerous new examples and industrial applications Allows the reader to methodically develop rigorous targets that benchmark the performance of industrial processes then develop cost effective implementations Contains state of the art process integration and improvement approaches and techniques including graphical algebraic and mathematical methods Covers topics and applications that include profitability enhancement mass and energy conservation synthesis of innovative processes retrofitting of existing systems design and assessment of water energy and water energy nexus systems and reconciliation of various sustainability objectives *Circular Z. National Fertilizer Development Center (U.S.), 1970*

Guidelines for Community Energy Planning Hang Yu, Zishuo Huang, Yiqun Pan, Weiding Long, 2019-09-12 This book systematically introduces readers to the operator method which can be used in different stages of urban planning Energy planning should ideally be accompanied by urban planning ranging from comprehensive planning and detailed planning to the design of individual construction projects This book discusses a range of methods and models for defining energy planning objectives analyzing and predicting energy demand assessing available energy resources optimizing integrated energy systems analyzing the cost effectiveness of proposals implementation management and post assessment Part one focuses on energy planning in different urban planning stages while part two provides detailed discussions of key issues related to energy planning *Process Integration* Mahmoud M. El-Halwagi, 2006-04-06 With growing global competition the process industries must spare no effort in insuring continuous process improvement in terms of Increasing profitability Conservation of resources and Prevention of pollution The question is how can engineers achieve these goals for a given process with numerous units and streams Until recently conventional approaches to process design and operation put emphasis only on individual units and parts of the process A more powerful integrated approach was lacking The new field of Process

Integration looks towards the processing plant as a whole in its attempt to find solutions and improvements Research over the past two decades has resulted in many techniques that allow engineers to better understand complex facilities and significantly enhance their performance This textbook presents a comprehensive and authoritative treatment of the concepts tools and applications of Process Integration Emphasis is given to systematic ways of analyzing process performance Graphical algebraic and mathematical procedures are presented in detail In addition to covering the fundamentals of the subject the book also includes numerous case studies and examples that illustrate how Process Integration is solving actual industrial problems Systematic methodology for analyzing the process as an integrated system identifying global insights of the process and generating optimum strategies and solutions Proper mix of fundamental principles insightful tools and industrial applications Generic techniques that are applicable to a wide variety of processing facilities Packed with case studies practical tools charts tables and performance criteria Extensive bibliography to provide ready access to process integration literature Excellent review of state of the art technology development trends and future research directions

Modeling and Control in Air-conditioning Systems Ye Yao, Yuebin Yu, 2016-10-01 This book investigates the latest modeling and control technologies in the context of air conditioning systems Firstly it introduces the state space method for developing dynamic models of all components in a central air conditioning system The models are primarily nonlinear and based on the fundamental principle of energy and mass conservation and are transformed into state space form through linearization The book goes on to describe and discuss the state space models with the help of graph theory and the structure matrix theory Subsequently virtual sensor calibration and virtual sensing methods which are very useful for real system control are illustrated together with a case study Model based predictive control and state space feedback control are applied to air conditioning systems to yield better local control while the air side synergic control scheme and a global optimization strategy based on the decomposition coordination method are developed so as to achieve energy conservation in the central air conditioning system Lastly control strategies for VAV systems including total air volume control and trim response static pressure control are investigated in practice

Heat Transfer Calculations for Buildings R. W. R. Muncey, 1979

The Electrical Journal, 1913

Home Automation with Raspberry Pi: Projects Using Google Home, Amazon Echo, and Other Intelligent Personal Assistants Donald Norris, 2019-05-03 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Gain the skills needed to create a hi tech home affordably and easily This hands on guide shows step by step how to use the powerful Raspberry Pi for home automation Written in an easy to follow style the book features DIY projects for Amazon Echo Google Home smart lightbulbs and thermostats and more Home Automation with Raspberry Pi Projects Using Google Home Amazon Echo and Other Intelligent Personal Assistants lays out essential skills for hobbyists and makers of all ages and experience levels You will discover how to build gadgets that can work in

conjunction with or in some cases replace commercially available smart home products Inside you ll learn how to Design and build custom home automation devices Interface a Google Home device to your Raspberry Pi Connect Google Voice Assistant to RasPi Incorporate GPIO control using the Amazon Echo Navigate home automation operating systems Use Z Wave in your RasPi HA projects Apply fuzzy logic techniques to your projects Work with sensors and develop home security systems Utilize two open source AI applications Mycroft and Picroft Tie your projects together to create an integrated home automation system

The Electrician ,1913 **Solar Engineering** American Society of Mechanical Engineers. Solar Energy Division. Conference,2004 **Annual Book of ASTM Standards** ASTM International,American Society for Testing and Materials,2003 **Chemical Abstracts** ,1914 **Heating, Cooling, Lighting** Norbert Lechner,1991-01-16 Using a qualitative rather than a quantitative approach presents detailed information based on concepts rules guidelines intuition and experience for architects in the areas of heating cooling and lighting at the schematic design stage The data explored supports a three tiered approach load avoidance using natural energy sources and mechanical equipment Among the topics covered are shading thermal envelope passive heating and cooling electric lighting and HVAC Case studies illustrate how certain buildings use techniques at all three tiers for heating cooling and lighting An appendix lists some of the more appropriate computer programs available to the architect for analysis at the schematic design stage Electronic Communication Robert L. Shrader,1991 Radio electronics Chemical Engineering: Chemical engineering design John Metcalfe Coulson,John Francis Richardson,1993 Cassier's Engineering Monthly ,1913 **Heating, Piping, and Air Conditioning** ,1957 Vols for May 1929 Dec 1958 include the Journal of the American Society of Heating and Air Conditioning Engineers called in 1929 54 American Society of Heating and Ventilating Engineers in Journal section

Engineering ,1905 **Patents for Inventions. Abridgments of Specifications** Great Britain. Patent Office,1907
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