

# Project X Buildings Cool Buildings

Research Anthology on Environmental and Societal Well-Being Considerations in Buildings and Architecture Advanced Building Technologies for Sustainability Building in Hot and Humid Regions Great Building Designs 1900 - Today Natural Building Cooling Building Systems for Interior Designers Buildings Realty and Building Cooling Buildings in London Cool Architecture Technical Review of the Building Arts The Building News and Engineering Journal Building Operating Management Energy Audit of Building Systems National Building and Loan Herald American Architect and Building News Experimental Farm Buildings Moisture Problems in Buildings Art and Handicraft in the Woman's Building of the World's Columbian Exposition, Chicago, 1893 The American Architect and Building News Management Association, Information Resources Asif Syed Napoleon Enteria Ian Graham Benjamin Ramirez Corky Binggeli Hilary Graves Sarah Noal Moncef Krarti National Institute of Agricultural Engineering (Great Britain). Farm Building Department RILEM/CIB Symposium on Moisture Problems in Buildings (1965 : Helsinki) Maud Howe Elliott

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when it comes to architecture there has been a focus on sustainable buildings and human well being in the built environment buildings should not only be environmentally friendly and sustainable but dually focused on human health wellness and experience this includes considerations into the quality of buildings ranging from ventilation to thermal comfort along with environment considerations such as energy usage and material selection specific architectural choices and design for buildings can either contribute to or negatively impact both society and the environment leading research in the field of architecture to be focused on environmental and societal well being in accordance with the built environment the research anthology on environmental and societal well being considerations in buildings and architecture focuses on how the built environment is being constructed to purposefully enhance societal well being while also maintaining green standards for environmental sustainability on one side this book focuses on the specific building choices that can be made for the purpose of human well being and the occupants who will utilize the building on the other side this book also focuses on environmental sustainability from the standpoint of green buildings and environmental concerns together these topics allow this book to have a holistic view of modern architectural choices and design this

book is essential for architects it professionals engineers contractors environmentalists interior designers civil planners regional government officials construction companies policymakers practitioners researchers academicians and students interested in architecture and how it can promote environmental and societal well being

practical solutions for sustainability in this timely guide one of the world s leaders in advanced building technology implementation shows architects and engineers proven and practical methods for implementing these technologies in sustainably designed buildings because of the very limited time architects are given from being awarded a project to concept design this book offers clear and workable solutions for implementing solar energy radiant heating and cooling floors displacement ventilation net zero and more it provides helpful tips and suggestions for architects and engineers to work together on implementing these technologies along with many innovative possibilities for developing a truly integrated design this book also explores and explains the many benefits of advanced technologies including reduced greenhouse gas emissions lower operating costs noise reduction improved indoor air quality and more in addition advanced building technologies for sustainability offers detailed coverage of solar energy systems thermal energy storage geothermal systems high performance envelopes chilled beams under floor air distribution displacement induction units and much more provides case studies of projects using advanced technologies and demonstrates their implementation in a variety of contexts and building types covers the implementation of advanced technologies in office towers large residential buildings hospitals schools dormitories theaters colleges and more complete with a clear and insightful explanation of the requirements for and benefits of acquiring the u s green building council s leed certification advanced building technologies for sustainability is an important resource for architects engineers developers and contractors involved in sustainable projects using advanced technologies

this book presents an in depth analysis covering climatic and weather conditions house and building development history construction methods and technologies and environmental conditions it provides relevant house and building information and highlights recent advances in hot and humid regions as well as developments in other regions that are relevant to hot and humid climates the countries in hot and humid regions which include the tropical countries the middle eastern countries around the mediterranean and many countries of central asia and africa are home to some of the most challenging conditions in the world in terms of house and building design and construction and in terms of maintaining indoor thermal comfort and air quality in an energy efficient way the book s respective chapters prepared by expert contributors cover essential concepts designs and construction methodologies for houses and commercial buildings as such the book offers a valuable resource for undergraduate and graduate students in architecture and engineering house and building designers and building sciences researchers building contractors manufacturers and distributors of building equipment and devices and government policymakers and legislators will also benefit from the information provided in this book

examines the development of architectural design from the flatiron and empire state buildings to burj khalifa in dubai and the shard in london profiles noted architects and discusses the design process

natural building cooling explores the crucial role of passive cooling and natural

ventilation in sustainable architectural design it highlights how these strategies which utilize natural resources to regulate building temperatures are vital for reducing energy consumption and combating climate change the book delves into the physics of heat transfer and fluid dynamics demonstrating how techniques like shading and earth coupling can minimize reliance on mechanical cooling systems intriguingly the book traces the evolution of these techniques from ancient vernacular architecture to modern sustainable designs revealing that buildings can in a sense breathe the book progresses by first establishing the core principles of passive cooling and natural ventilation then moves into specific ventilation strategies like stack and cross ventilation finally it discusses the integration of these methods into comprehensive architectural designs emphasizing the importance of climate responsive design and material selection through real world case studies and energy modeling it demonstrates the effectiveness of these strategies across diverse climates and building types ultimately this book makes a case for harmonizing buildings with their environment

building systems for interior designers make design decisions informed by technical and structural knowledge with this essential guide professional interior design demands more than simply an understanding of aesthetic and artistic considerations it also requires a detailed understanding of building systems and their interactions design decisions must account for mechanical and electrical equipment building components and structural elements all of which can potentially shape a designer's work building systems for interior designers has long stood as the key to understanding and evaluating these elements particularly key building systems like hvac and plumbing and their impacts on interior design this fourth edition is fully updated to fit the needs of the cida certified interior design program and the ncidq exam the fourth edition of building systems for interior designers also includes updated information on sustainable and energy efficient design detailed coverage of topics including security concerns fire safety and designing secure spaces classroom supplements including sample construction documents chapter specific discussion questions and more building systems for interior designers is ideal for students in interior design courses and new professionals studying for ncidq exams

the construction and building management journal

presents the results of long term measurements of air temperatures around london also outlines techniques to reduce the effects of the central london heat island by careful design of the building and its surroundings

introduces a range of international architectural projects from residential and municipal to commercial and industrial each designed to withstand cold climate conditions including sub zero temperatures freeze thaw cycles heavy snowfalls and the long dark days of arctic winters

updated to include recent advances this third edition presents strategies and analysis methods for conserving energy and reducing operating costs in residential and commercial buildings the book explores the latest approaches to measuring and improving energy consumption levels with calculation examples and case studies it covers field testing energy simulation and retrofit analysis of existing buildings it examines subsystems such as lighting heating and cooling and techniques needed for accurately evaluating them auditors managers and students of energy systems will find this book to be an invaluable resource for their work explores state of the art

techniques and technologies for reducing energy combustion in buildings presents the latest energy efficiency strategies and established methods for energy estimation provides calculation examples that outline the application of the methods described examines the major building subsystems lighting heating and air conditioning addresses large scale retrofit analysis approaches for existing building stocks introduces the concept of energy productivity to account for the multiple benefits of energy efficiency for buildings includes case studies to give readers a realistic look at energy audits moncef krarti has vast experience in designing testing and assessing innovative energy efficiency and renewable energy technologies applied to buildings he graduated from the university of colorado with both ms and phd in civil engineering prof krarti directed several projects in designing energy efficient buildings with integrated renewable energy systems he has published over 3000 technical journals and handbook chapters in various fields related to energy efficiency distribution generation and demand side management for the built environment moreover he has published several books on building energy efficient systems prof krarti is fellow member to the american society for mechanical engineers asme the largest international professional society he is the founding editor of the asme journal of sustainable buildings cities equipment and systems prof krarti has taught several different courses related to building energy systems for over 20 years in the united states and abroad as a professor at the university of colorado prof krarti has been managing the research activities of an energy management center at the school with an emphasis on testing and evaluating the performance of mechanical and electrical systems for residential and commercial buildings he has also helped the development of similar energy efficiency centers in other countries including brazil mexico and tunisia in addition prof krarti has extensive experience in promoting building energy technologies and policies overseas including the establishment of energy research centers the development of building energy codes and the delivery of energy training programs in several countries

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