

A jumper duct balances pressure by allowing air to flow between the great room and the master bedroom.

The range hood exhausts cooking odors through a roof vent.

The ERV supplies fresh air to the main living space and exhausts stale air from the kitchen and bathrooms.

Stale air is exhausted by the ERV through a gable vent on the opposite side of the house from the fresh air intake.

Dehumidifier

Heat pump

Whole-house air purifier

Return air intake for heat pump

Incoming makeup air in the kitchen is filtered through an intake filter box.

A closed gable vent brings fresh air to the ERV intake and makeup air to the kitchen.

A double vent in the left space supplies fresh air from the ERV and conditioned air from the heat pump. A return vent is located on the opposite end of the wall.

Heat pump supply
Heat pump return
ERV intake
ERV exhaust

Small Hvac System Design Guide Green Architecture

**Konstantin V. Frolov, Oleg N.
Favorsky, R.A. Chaplin and Christos
Frangopoulos**



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The Integrative Design Guide to Green Building 7group, Bill Reed, 2011-10-11 The members of 7group and Bill Reed are examples writ large of the kind of leadership that is taking this idea of green building and forming it into reality by helping change minds building practice and design process from the Foreword by S Rick Fedrizzi President CEO and Founding Chair U S Green Building Council A whole building approach to sustainability The integrative design process offers a new path to making better green building decisions and addressing complex issues that threaten living systems In The Integrative Design Guide to Green Building Redefining the Practice of Sustainability 7group s principals and integrative design pioneer Bill Reed introduce design and construction professionals to the concepts of whole building design and whole systems With integrative thinking that reframes what sustainability means they provide a how to guide for architects designers engineers developers builders and other professionals on incorporating integrative design into every phase of a project This practical manual Explains the philosophy and underpinnings of effective integrative design addressing systems thinking and building and community design from a whole living system perspective Details how to implement integrative design from the discovery phase to occupancy supported by process outlines itemized tasks practice examples case studies and real world stories illustrating the nature of this work Explores the deeper understanding of integration that is required to transform architectural practice and our role on the planet This book both practical and thoughtful will help you deliver your vision of a sustainable environment The Green Studio Handbook Alison G. Kwok, Walter T. Grondzik, Tom

Hahn, 2025-07-03 Making the complexities of green architecture accessible to the design studio The Green Studio Handbook remains a must read for current and future architects The heart of this book provides 43 comprehensive design strategies covering the building envelope lighting heating cooling energy and electricity and water and waste each with a description key architectural issues implementation considerations and a step by step design procedure for integration early in the design process Each design strategy has been thoroughly reviewed and updated to reflect the latest evidence based guidance best practices and standards in consideration of all climatic zones In addition to more than 80 building examples provided throughout ten in depth case studies illustrate successful integration of numerous strategies All case studies are brand new to this fourth edition and include a wide range of building types from the USA Colombia Rwanda Malaysia Denmark Bhutan Canada and Australia Envelope design strategies have been significantly revised and expanded to include new strategies on Foundation systems for the reduction of embodied carbon Framing systems using mass timber bamboo and other natural material based systems Low complexity wall systems using natural elements such as earth lime straw and hemp High complexity wall systems for enhanced thermal performance and strength Additional roofing systems beyond green roofs

Sustainable Building - Design Manual , 2004-01-01 This first volume of Sustainable building design manuals focuses on policy and regulatory mechanisms and serves as a guide to policy makers and local authorities *Air-conditioning System*

Design Manual Walter T. Grondzik, 2007 The Air Conditioning Manual assists entry level engineers in the design of air conditioning systems It is also usable in conjunction with fundamental HVAC R resource material as a senior or graduate level text for a university course in HVAC system design The manual was written to fill the void between theory and practice to bridge the gap between real world design practices and the theoretical calculations and analytical procedures or on the design of components This second edition represents an update and revision of the manual It now features the use of SI units throughout updated references and the editing of many illustrations Helps engineers quickly come up with a design solution to a required air conditioning system Includes issues from comfort to cooling load calculations New sections on Green HVAC systems deal with hot topic of sustainable buildings

NEED for LEED I Ali Al-Dimshawy, 2022-12-04 Written by real life Sustainability Experts and utilizing a real life project experience this 20 minutes read explains the necessity and feasibility of adopting a solid Sustainability Rating System i e LEED

A Handbook on Low-Energy Buildings and District-Energy Systems L.D. Danny Harvey, 2012-08-21 Winner of Choice Magazine Outstanding Academic Titles for 2007 Buildings account for over one third of global energy use and associated greenhouse gas emissions worldwide Reducing energy use by buildings is therefore an essential part of any strategy to reduce greenhouse gas emissions and thereby lessen the likelihood of potentially catastrophic climate change Bringing together a wealth of hard to obtain information on energy use and energy efficiency in buildings at a level which can be easily digested and applied Danny Harvey offers a comprehensive objective and critical sourcebook on low energy buildings Topics covered include thermal envelopes heating cooling heat pumps HVAC systems hot water lighting solar energy appliances and office equipment embodied energy buildings as systems and community integrated energy systems cogeneration district heating and district cooling The book includes exemplary buildings and techniques from North America Europe and Asia and combines a broad holistic perspective with technical detail in an accessible and insightful manner

Designing the Sustainable School Alan Ford, The Images Publishing Group, 2007 Having designed more than 75 K 12 school projects and with a long standing commitment to sustainability and a passion for architecture Alan Ford is perfectly positioned to present this illuminating collection of sustainable school projects from around the world Designing the Sustainable School is a compendium of ideas illustrating how some very talented architects and committed facility planners are meeting the challenge of creating better schools for the 21st century They are creating schools that are eco friendly embody high performance design principles are rich in architectural character and enhance the health and well being of students and teachers The projects represent a wide range of design solutions aesthetics location and scale ranging in size from the Aga Khan Award winning three room schoolhouse in Burkina Faso by Diebedo Francis Kere to the 2500 student 260 000 square foot high school in Santa Ana California by LPA Architects Each of the 45 featured projects is presented with an overview of the components of the high performance tool kit employed by architects to achieve sustainable design goals Collectively these demonstrate the breadth of tools that today s architects can

employ to build a sustainable future for our children *Organization and Administration of Physical Education* Jayne D. Greenberg, Judy L. LoBianco, 2025-03-25 *Organization and Administration of Physical Education* Second Edition is fully updated with the revised SHAPE America National Physical Education Standards and culturally responsive teaching practices PE administrators will learn solid foundational theory and practices to implement successful programs

Handbook on Hospital Planning & Designing Ajay Garg, 2024-03-18 This handbook is in reference to the book *Manual of Hospital Planning and Designing* which was earlier published by Springer Nature This *Handbook on Hospital Planning and Designing* is a helpful guide that shows how to build an efficient healthcare project Carefully planning and designing hospitals is essential to deliver and effective healthcare facilities It s basically a mix of art science and caring This book highlights the rooms spaces MEP service safety security equipment instruments and other support services This book is a summary of the essentials for designers and planners who want to design hospitals Architects designers doctors and people who are involved in the designing of hospital will find it useful It helps them make places that work well look nice and care for patients best Setting up the hospital project is more than just building It s about creating places where people get better and feel good This book explores everything about planning and designing hospitals in the given chapters from the beginning covering all the departments until the hospital is all set up This book is helpful for experienced architects with new ideas a healthcare worker who wants the best for patients or a student who loves learning about hospitals **MECHANICAL ENGINEERING, ENERGY SYSTEMS AND SUSTAINABLE DEVELOPMENT -Volume II** Konstantin V. Frolov, Oleg N. Favorsky, R.A. Chaplin and Christos Frangopoulos, 2009-04-15 *Mechanical Engineering Energy Systems and Sustainable Development* theme is a component of *Encyclopedia of Physical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS* which is an integrated compendium of twenty one Encyclopedias The Theme on *Mechanical Engineering Energy Systems and Sustainable Development* with contributions from distinguished experts in the field discusses mechanical engineering the generation and application of heat and mechanical power and the design production and use of machines and tools These five volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers NGOs and GOs

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