

Ahu Operation And Maintenance Manual

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[Aviation Unit and Intermediate Maintenance Manual](#) - 1991

[Air Conditioning Service Manual](#) - Intertec Publishing Corporation 1985

[Guide to Natural Ventilation in High Rise Office Buildings](#) - Antony Wood 2013

This guide sets out recommendations for every phase of the planning, construction and operation of natural ventilation systems in these buildings, including local climatic factors that need to be taken into account, how to plan for seasonal variations in weather, and the risks in adopting different implementation strategies. All of the recommendations are based on analysis of the research findings from richly-illustrated international case studies. This is the first technical guide from the Council on Tall Buildings and Urban Habitat's Tall Buildings & Sustainability Working Group looking in depth at a key element in the creation of tall buildings with a much-reduced environmental impact, while taking the industry closer to an appreciation of what constitutes a sustainable tall building, and what factors affect the sustainability threshold for tall.

Better Green Business - Eric Olson 2009-07-07

Better Green Business brings together practical insights and start-to-finish strategies for moving any enterprise to a higher level of environmental stewardship. Drawing on his extensive experience at IBM, Dr. Eric Olson shows how to systematically drive "win-win-win" gains: growing top-line revenue, helping customers increase efficiency, and improving the environment at the same time. Olson's business-focused guidance covers every step of your green business program, from strategy formulation through continuous improvement. He first offers a complete framework for approaching and formulating green strategy, using case studies to identify potential opportunities and business benefits. Next, using real case studies, he demonstrates how to define initiatives, construct roadmaps for transforming vision into reality, and link each investment to business strategy, so businesses can accurately measure results. Olson introduces powerful business process transformation methodologies and technologies for increasing operational efficiency and reducing waste, including IBM's breakthrough Green Sigma approach. He also identifies new opportunities to drive value by "instrumenting the planet," and introduces new technologies that make this possible. Finally, Olson assesses long-term trends that will make "green business" even more crucial in the coming years.

Linking the Construction Industry - National Research Council 2000-08-31

Public agencies, private corporations, nonprofit institutions, and other organizations regularly invest millions of dollars in acquiring buildings and other constructed facilities to support their lines of business. For this investment, the owner receives a complex structure composed of hundreds of separate but interrelated components, including roofs, walls, foundations, electrical, plumbing, heating, air conditioning, ventilation, fire, communication, safety, and architectural systems. These components and systems must all be maintained and repaired to optimize the facility's performance throughout its service life and to provide a safe, healthy, and productive environment for its users and occupants. Linking the Construction Industry: Electronic Operation and Maintenance Manuals is a summary of a workshop that was held at the National Academy of Sciences in Washington, D.C., on October 13, 1999. The workshop, planned and organized by the Federal Facilities Council and the National Institute of Building Sciences, brought together an invited

audience of building industry stakeholders, including owners and operators from federal agencies and other organizations, building component and system manufacturers, publishers of building product data and maintenance manuals, and CMMS software developers to revisit the issue of electronic operation and maintenance manuals.

HVAC Maintenance and Operations Handbook - Robert C. Rosaler 1998

Keep your HVAC system running in peak condition—and avoid costly breakdowns and inefficiencies. Just turn to this first comprehensive guide to the proper maintenance, operations, and performance of heating, ventilating, and air conditioning (HVAC) systems and related components. Written by a team of leading HVAC pros, the handbook provides everything you need to effectively operate and maintain heating equipment...distribution equipment...cooling systems...pumps...valves...and boilers. It also provides proper procedures for indoor air quality (IAQ) control and system commissioning.

HVAC Design Manual for Hospitals and Clinics - Ashrae 2013

"Provides in-depth design recommendations and proven, cost effective, and reliable solutions for health care HVAC design that provide low maintenance cost and high reliability based on best practices from consulting and hospital engineers with decades of experience in the design, construction, and operation of health care facilities"--

Fundamentals of HVAC Control Systems - Steven T. Taylor, Ross Montgomery, Robert McDowall
Heating, Ventilation and Air-Conditioning (HVAC) control systems are omnipresent in modern buildings. This book is an introduction to all those involved in the specification, design, manufacture, installation, operation or maintenance of these systems. The book explains: *Control theory and how to evaluate, select, position and sequence the appropriate type of control *The electrical knowledge needed to understand controls and the use of electrical circuit drawings *The various types of valves and dampers, and their selection, installation and operation *Terminology and attributes of sensors, the selection of moisture sensors, pressure, flow, and auxiliary devices *Self-powered and system-powered controls *Electric controls, control diagrams and control logic *The components of pneumatic systems and control applications diagrams *Wiring conventions, application-specific electronic controllers and how to use them in HVAC applications *The use of written specifications, schedules, and drawings to clearly identify what is to be installed, how it is to be installed, and how it is expected to operate *Direct Digital Controls (DDC) components, their inputs and outputs, and the programming of DDC routines *DDC Networks and Protocols *DDC Specification, Installation and Commissioning After completing this course, you will understand: *Control theory and how to evaluate, select, position and sequence the appropriate type of control *The electrical knowledge needed to understand controls and the use of electrical circuit drawings *The various types of valves and dampers, and their selection, installation and operation *Terminology and attributes of sensors, the selection of moisture sensors, pressure, flow, and auxiliary devices *Self-powered and system-powered controls Electric controls, control diagrams and control logic *The components of pneumatic systems and control applications diagrams *Wiring conventions, application-specific electronic controllers and how to use them in HVAC applications *The use of written specifications, schedules, and drawings to clearly identify what is to be installed, how it is to be installed, and how it is expected to operate *Direct Digital Controls (DDC) components, their inputs and outputs, and the programming of DDC routines *DDC Networks and Protocols *DDC Specification, Installation and Commissioning

Good School Maintenance - 1996

This manual, published by the Illinois Association of School Boards, was designed to be used as a teaching tool and reference source for overseeing effective school maintenance. Section 1 describes the basics of good school maintenance, including managing the program, using computers, controlling energy costs, ensuring safe practices, designing buildings for efficient maintenance, and being informed about environmental issues. Section 2 details guidelines for operating cleaning and general building services, such as custodial operations, area cleaning programs, and equipment and supplies. A custodian's glossary is included. The third section provides guidelines for building maintenance, specifically, caring for the exterior and roof. Procedures for maintaining school grounds are detailed in the fourth section. The fifth section describes the maintenance of mechanical equipment, including heating and air conditioning systems, sanitary systems and fixtures, sewage treatment plants, and electrical systems. A management tools appendix contains a list of environmental resources; sections on cleaning and general building services, grounds maintenance, and mechanical equipment; and annual inspection checklists. (LMI)

Labor Relations Reference Manual - 1949

HVAC and Refrigeration Preventive Maintenance - Eric Kleinert 2014-11-12

Keep HVAC and refrigeration equipment running at peak performance In this practical resource, a veteran service and repair professional with decades of hands-on experience walks you through the preventive maintenance process for residential and commercial HVAC and refrigeration systems. You'll learn how to inspect, adjust, clean, and test your products to ensure that they run efficiently and have a long service life. Ideal for experienced service technicians, entry-level technicians, business owners, maintenance engineers, and do-it-yourself homeowners, this highly visual manual is filled with detailed instructions and clear photos and diagrams. Useful icons throughout the book indicate the degree of difficulty for each procedure. Save money and time, improve indoor air quality, and get maximum use from HVAC and refrigeration machines with help from this step-by-step guide. HVAC and Refrigeration Preventive Maintenance covers: Safety practices Tools needed for installation, repair and preventive maintenance Indoor air quality (IAQ) Test and balance Principles of air conditioning and refrigeration Basic electricity and electronics Gas Oil Room air conditioners Residential air conditioning and heating Residential refrigeration appliances Commercial air conditioning and heating Water towers Self-contained commercial refrigerators and freezers Commercial ice machines Troubleshooting Where to get help

Monthly Catalogue, United States Public Documents - 1990

GRIHA for Existing Buildings: Transforming existing buildings to sustainable buildings (Version 1: Detailed Manual) - A GRIHA Council Publication 2022-03-10

GRIHA for Existing Buildings rating is an integrated green building rating tool to evaluate the performance of existing buildings and provide solutions for enhanced energy and water efficiency, increased thermal & visual comfort, and decreased operational & maintenance costs. While focusing on the above, the tool has been developed with the underlying objectives of simplicity of execution, economic viability and alignment with national and international codes and standards. The rating endeavours to cover various categories of buildings across diverse climatic zones of the country. The rating system is a 100 point system consisting of 12 criteria categorized under seven sections such as Site Parameters, Maintenance & Housekeeping, Energy, Water, Human Health & Comfort, and Social Aspects. The minimum points required for certification is 25. Contents: SECTION I: SITE PARAMETERS Criterion 1: Accessibility to Basic Services Criterion 2: Microclimatic Impact SECTION II: MAINTENANCE AND HOUSEKEEPING Criterion 3: Maintenance, Green Procurement, and Waste Management Criterion 4: Metering and Monitoring SECTION III: ENERGY Criterion 5: Energy Efficiency Criterion 6: Renewable Energy Utilization SECTION IV: WATER EFFICIENCY Criterion 7: Water Footprint Criterion 8: Reduction in Cumulative Water Performance SECTION V: OCCUPANT HEALTH AND COMFORT Criterion 9: Achieving Indoor Comfort Requirements (Thermal, Visual, And Acoustic) Criterion 10: Maintaining Good IAQ SECTION VI: SOCIAL ASPECTS Criterion 11: Universal Accessibility and Environmental Awareness SECTION VII: BONUS POINTS Criterion 12: Bonus Points USER GUIDE Appendices

Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971 - New York Public Library. Research Libraries 1979

Federal Claims Reporter - 2005

Volkswagen Jetta, Golf, Gti, Cabrio Service Manual - Robert Bentley, inc 1999

Bentley Publishers is the exclusive factory-authorized publisher of Volkswagen Service Manuals in the United States and Canada. In every manual we provide full factory repair procedures, specifications, tolerances, electrical wiring diagrams, and lubrication and maintenance information. Bentley manuals are the only complete, authoritative source of Volkswagen maintenance and repair information. Even if you never intend to service your car yourself, you'll find that owning a Bentley Manual will help you to discuss repairs more intelligently with your service technician.

Volkswagen Jetta, Golf, GTI: 1993-1999 Cabrio - Bentley Publishers 2011-02

The Volkswagen Jetta, Golf, GTI: 1993-1999 Cabrio: 1995-2002 Service Manual is a comprehensive and up-to-date source of maintenance and repair information for Volkswagen "A3" platform models sold in the USA and Canada. Engines covered in this Volkswagen repair manual: * 1.8L turbo gasoline (code ACC) * 1.9L diesel (codes AAZ, 1Z, AHU) * 2.0L gasoline (code ABA) * 2.8L gasoline (code AAA) Transmissions covered in this Volkswagen repair manual (removal, installation and external service): * 020 and 021 5-speed transmission * 096 and 01M 4-speed automatic

Automated Diagnostics and Analytics for Buildings - Barney L. Capehart 2021-01-07

With the widespread availability of high-speed, high-capacity microprocessors and microcomputers with high-speed communication ability, and sophisticated energy analytics software, the technology to support deployment of automated diagnostics is now available, and the opportunity to apply automated fault detection and diagnostics to every system and piece of equipment in a facility, as well as for whole buildings, is imminent. The purpose of this book is to share information with a broad audience on the state of automated fault detection and diagnostics for buildings applications, the benefits of those applications, emerging diagnostic technology, examples of field deployments, the relationship to codes and standards, automated diagnostic tools presently available, guidance on how to use automated diagnostics, and related issues.

GRIHA Version 2019: The Sustainable Habitat Handbook (6 Volume Set) - A GRIHA Council Publication 2022-01-14

GRIHA V 2019 is the 5th updated version of the GRIHA Rating system which addresses relevant, present-day concerns of the green building fraternity by encapsulating concepts such as water performance index, life cycle cost analysis, life cycle analysis, liveability index, etc. It captures social aspects of sustainability and aids the design of healthy and comfortable habitats. This set of GRIHA manuals provides a detailed understanding of the GRIHA Rating system, its underlying criteria, rating process, strategies for compliance, and the documentation and evaluation procedure. It serves as a handbook for multiple stakeholders like (architects, service engineers, landscape designers, project managers, and contractors) involved in the design and construction of sustainable buildings. Salient features The following are the salient features of the new version of GRIHA rating: · Indigenous rating system · Adoption of holistic approach towards sustainability · Process driven and performance oriented · Integrated team approach Table of Contents: VOLUME I: INTRODUCTION (118 PAGES) VOLUME 2: (137 PAGES) SECTION 1: SUSTAINABLE SITE PLANNING Criterion 1: Green Infrastructure Criterion 2: Low-Impact Design Strategies Criterion 3: Design to Mitigate UHIE SECTION 2: CONSTRUCTION MANAGEMENT Criterion 4: Air and Soil Pollution Control Criterion 5: Topsoil Preservation Criterion 6: Construction Management Practices VOLUME 3 : (241 PAGES) SECTION 3: ENERGY OPTIMIZATION Criterion 7: Energy Optimization Criterion 8: Renewable Energy Utilization Criterion 9: Low ODP and GWP Materials SECTION 4: OCCUPANT COMFORT Criterion 10: Visual Comfort Criterion 11: Thermal and Acoustic Comfort Criterion 12: Indoor Air Quality VOLUME 4: (239 PAGES) SECTION 5: WATER MANAGEMENT Criterion 13: Water Demand Reduction Criterion 14: Wastewater Treatment Criterion 15: Rainwater Management Criterion 16: Water Quality and Self-Sufficiency SECTION 6: SOLID WASTE MANAGEMENT Criterion 17:

Waste Management—Post Occupancy Criterion 18: Organic Waste Treatment VOLUME 5: (93 PAGES) SECTION 7: SUSTAINABLE BUILDING MATERIALS CRITERION 19: Utilization of Alternative Materials in Building CRITERION 20: Reduction in Global Warming Potential through Life Cycle Assessment CRITERION 21: Alternative Materials for External Site Development SECTION 8: LIFE CYCLE COSTING CRITERION 22: Life Cycle Cost Analysis VOLUME 6: (151 PAGES) SECTION 9: SOCIO-ECONOMIC STRATEGIES Criterion 23: Safety and Sanitation for Construction Workers Criterion 24: Universal Accessibility Criterion 25: Dedicated Facilities for Service Staff Criterion 26: Positive Social Impact SECTION 10: PERFORMANCE METERING AND MONITORING Criterion 27: Project Commissioning Criterion 28: Smart Metering and Monitoring Criterion 29: Operation and Maintenance Protocol SECTION 11: INNOVATION Criterion 30: Innovation
U.S. Government Research Reports - 1962

Bibliography of Scientific and Industrial Reports - 1947

Department of Housing and Urban Development--independent Agencies Appropriations for 1987: National Aeronautics and Space Administration - United States. Congress. House. Committee on Appropriations. Subcommittee on HUD-Independent Agencies 1986

Planning and Designing of Specialty Healthcare Facilities - Shakti Kumar Gupta 2020-06-30

Competitive Energy Management & Environmental Technologies - Jana Ricketts 1995

This text documents strategies for energy cost reduction in commercial, institutional, industrial and government buildings. Emphasis is placed on the integration of energy and environmental technologies which aim to reduce global warming, improve indoor air quality and meet CFC phaseout requirements. In addition, competitive power issues are addressed and their impact on new power generation technologies and demand-side management alternatives.

Commerce Business Daily - 1998-05

Infrastructure - Alan H. Molof 1984

Honolulu High-capacity Transit Corridor Project, City and County of Honolulu, O`ahu - 2010

Data Driven Energy Centered Maintenance - Fadi Alshakhshir 2021-07-20

Over recent years, many new technologies have been introduced to drive the digital transformation in the building maintenance industry. The current trend in digital evolution involves data-driven decision making which opens new opportunities for an energy centered maintenance model. Artificial Intelligence and Machine Learning are helping the maintenance team to get to the next level of maintenance intelligence to provide real-time early warning of abnormal equipment performance. This edition follows the same methodology as the First. It provides detailed descriptions of the latest technologies associated with Artificial Intelligence and Machine Learning which enable data-driven decision-making processes about the equipment's operation and maintenance. Technical topics discussed in the book include: Different Maintenance Types and The Need for Energy Centered Maintenance The Centered Maintenance Model Energy Centered Maintenance Process Measures of Equipment and Maintenance Efficiency and Effectiveness Data-Driven Energy Centered Maintenance Model: Digitally Enabled Energy Centered Maintenance Tasks Artificial Intelligence and Machine Learning in Energy Centered Maintenance Model Capabilities and Analytics Rules Building Management System Schematics The book contains a detailed description of the digital transformation process of most of the maintenance inspection tasks as they move away from being manually triggered. The book is aimed at building operators as well as those building automation companies who are working continuously to digitalize building operation and maintenance procedures. The benefits are reductions in the equipment failure rate, improvements in equipment reliability, increases in equipment efficiency and extended equipment lifespan.

Monthly Catalog of United States Government Publications - 1985

Department of Housing and Urban Development--independent Agencies Appropriations for 1987: Federal Emergency Management Agency - United States. Congress. House. Committee on Appropriations. Subcommittee on HUD-Independent Agencies 1986

ARMA Records Management Quarterly - 1982

Handbook of Air Conditioning and Refrigeration - Shan K. Wang 2001

* A broad range of disciplines--energy conservation and air quality issues, construction and design, and the manufacture of temperature-sensitive products and materials--is covered in this comprehensive handbook * Provide essential, up-to-date HVAC data, codes, standards, and guidelines, all conveniently located in one volume * A definitive reference source on the design, selection and operation of A/C and refrigeration systems

Testing and Balancing HVAC Air and Water Systems - Samuel C. Sugarman 2022-02-10

This thoroughly revised book will provide the reader with an understanding of the principles and practices of testing and balancing (TAB) heating, ventilating and air conditioning (HVAC) air and water systems. It is for anyone interested in testing and balancing. For the novice and the experienced testing and balancing technician, it is a field reference book of procedures, equations, and information tables. For those interested in getting into TAB or who are new to the HVAC industry, it is a text for learning more about HVAC systems and testing and balancing. For the mechanical engineer, building owner, facility manager, commissioning agency or energy manager, this book can be used for teaching TAB, writing more effective specifications, and learning about TAB and how it interacts with system commissioning, indoor air quality and energy management. It is the intent of this book to improve the communications between owners, mechanical engineers, designers, vendors, contractors, TAB engineers, supervisors, and technicians to ensure that HVAC systems are being thoroughly tested and balanced. This book is used in test and balance self-study courses, in-house training programs, seminars, and other training formats as preparation for TAB certification, and as a text in colleges and technical schools. The sixth edition has general and specific testing and balancing procedures for constant air volume systems, variable air volume systems, return air and exhaust air systems, positive and negative pressure conditioned spaces, and fans and fan performance in Chapters 1 through 9. Chapters 10-12 cover testing and balancing fume hood systems, and cleanrooms and commissioning HVAC systems. Chapters 13 and 14 provide information on water systems and centrifugal pumps including water balancing procedures using flow meters, system components and temperatures, and water pumps and pump performance. Chapter 15 reviews analog and digital controls. Chapters 16-20 cover terminology for fluid flow, psychrometrics, refrigeration, air distribution, water distribution, fans and pumps, motors, electrical, and instrument usage and care. Chapters 21 and 22 are equations and tables.

Fundamentals of HVAC Control Systems - Ross Montgomery 2008

Annotation This book provides a thorough introduction and a practical guide to the principles and characteristics of controls, and how to apply them in the use, selection, specification and design of control systems.

Facilities for Surgical Procedures - NHS Estates 2004

Supplies guidance relevant to facilities for surgical procedures in all healthcare settings. This volume covers the facilities required to support in-patient operating theatres in an acute general hospital.

Guide to Best Practice Maintenance & Operation of HVAC Systems for Energy Efficiency - Lasath Lecamwasam 2012

Residential Duct Systems - Manual D - Acca 2017-02

The Third Edition of ANSI/ACCA Manual D is the Air Conditioning Contractors of America procedure for sizing residential duct systems. This procedure uses Manual J (ANSI/ACCA, Eighth Edition) heating and cooling loads to determine space air delivery requirements. This procedure matches duct system resistance

(pressure drop) to blower performance (as defined by manufacture's blower performance tables). This assures that appropriate airflow is delivered to all rooms and spaces; and that system airflow is compatible with the operating range of primary equipment. The capabilities and sensitivities of this procedure are compatible with single-zone systems, and multi-zone (air zoned) systems. The primary equipment can have a multi-speed blower (PSC motor), or a variable-speed blower (ECM or constant torque motor, or a true variable speed motor). Edition Three, Version 2.50 of Manual D (D3) specifically identifies normative requirements, and specifically identifies related informative material.

Cost Planning and Estimating for Facilities Maintenance - R.S. Means Company 1996-05-24

A comprehensive approach to maintenance and repair planning and budgeting for all major building types. Facilities professionals faced with the task of providing higher quality services on smaller budgets will find guidance for evaluating and budgeting facilities operations, maintaining and repairing major building components, and assembling costs into a defensible budget.

Site Management of Building Services Contractors - Jim Wild 2002-09-11

Managing building services contractors can prove to be a minefield. The most successful jobs will always be those where building site managers have first built teams focused on tackling issues that might cause adversarial attitudes later on and jeopardize the project. The author shows how a simple common management approach can improve site managers' competency in overseeing building services contractors, sub-traders and specialists, and maximize the effectiveness of time spent on building services.

GRIHA Version 2019: Volume One - GRIHA Council 2022-02-01

GRIHA (Green Rating for Integrated Habitat Assessment) is the national rating system of India. It has been acknowledged as India's own green building rating system. The tool evaluates reductions in emission intensity through habitats. GRIHA is a part of mitigation strategy for combating climate change in India's "Nationally Determined Contributions" submitted to UNFCCC by the Ministry of Environment, Forests & Climate Change, Government of India. This set of GRIHA manuals is a guide for building professionals (architects, services engineers, landscape designers, project managers, and contractors) involved in the design and construction of green buildings. The manuals provide a comprehensive understanding of the 5th updated version of GRIHA rating system, with introduction to concepts like life cycle cost analysis, life cycle

analysis, and water performance index, etc., with an aim to build more sustainable physical assets and infrastructure services, while enhancing the livability and workability of the occupants included in its underlying criteria, rating process, strategies for compliance, and the documentation and evaluation procedure. Salient features The following are the salient features of the new version of GRIHA rating: · Indigenous rating system · Adoption of holistic approach towards sustainability · Process driven and performance oriented · Integrated team approach Contents: MESSAGE PRESIDENT GRIHA Council FOREWORD CEO GRIHA Council Acknowledgements Technical Advisory Committee Development Team Abbreviations Introduction Criteria SECTION 1: SUSTAINABLE SITE PLANNING Criterion 1: Green Infrastructure Criterion 2: Low-Impact Design Strategies Criterion 3: Design to Mitigate UHI SECTION 2: CONSTRUCTION MANAGEMENT Criterion 4: Air and Soil Pollution Control Criterion 5: Topsoil Preservation Criterion 6: Construction Management Practices SECTION 3: ENERGY OPTIMIZATION Criterion 7: Energy Optimization Criterion 8: Renewable Energy Utilization Criterion 9: Low ODP and GWP Materials SECTION 4: OCCUPANT COMFORT Criterion 10: Visual Comfort Criterion 11: Thermal and Acoustic Comfort Criterion 12: Indoor Air Quality SECTION 5: WATER MANAGEMENT Criterion 13: Water Demand Reduction Criterion 14: Wastewater Treatment Criterion 15: Rainwater Management Criterion 16: Water Quality and Self-Sufficiency SECTION 6: SOLID WASTE MANAGEMENT Criterion 17: Waste Management—Post Occupancy Criterion 18: Organic Waste Treatment SECTION 7: SUSTAINABLE BUILDING MATERIALS CRITERION 19: Utilization of Alternative Materials in Building CRITERION 20: Reduction in Global Warming Potential through Life Cycle Assessment CRITERION 21: Alternative Materials for External Site Development SECTION 8: LIFE CYCLE COSTING CRITERION 22: Life Cycle Cost Analysis SECTION 9: SOCIO-ECONOMIC STRATEGIES Criterion 23: Safety and Sanitation for Construction Workers Criterion 24: Universal Accessibility Criterion 25: Dedicated Facilities for Service Staff Criterion 26: Positive Social Impact SECTION 10: PERFORMANCE METERING AND MONITORING Criterion 27: Project Commissioning Criterion 28: Smart Metering and Monitoring Criterion 29: Operation and Maintenance Protocol SECTION 11: INNOVATION Criterion 30: Innovation Audience: Building professionals (architects, services engineers, landscape designers, project managers, and contractors) involved in the design and construction of green buildings Shelving: Environmental Engineering: Sustainable Architecture