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Version 2.0

Abridged Reference Guide
April 2012

Igbc Green Homes Abridged Reference Guide

**Bikas Kumar Sinha, Srijib Bhusan
Bagchi**



Igbc Green Homes Abridged Reference Guide:

IGBC Green Homes, 2009 **Green Building Guidance** Karthik Karuppu, NVICO, 2019-02-07 Conventional buildings don't have sustainability because of the approach of designing and the construction method. The total energy consumption calculates for all buildings account for up to 40% in India and commercial and residential real estate combined will account for more than 2000 TWH of energy consumption by 2030. India has an expected energy deficit of around 12% which is one of the major hurdles for the government. This will result in a further increase in electrification in all areas. Green buildings utilize fewer resources and are healthier to live in. They offer significant operational cost savings compared with conventional buildings. In effect, green homes can expect a 14 percent savings in operational costs over five years for new green buildings and 13 percent savings in operational costs over five years for green retrofit and renovation projects. Building owners also report that green buildings, whether new or renovated, give a 7 percent increase in asset value over conventional buildings.

Smart Energy Practices for a Sustainable World Nina S. Godbole, John P. Lamb, 2023-06-13 Mankind has scaled unprecedented growth since the advent of the Industrial Revolution. However, this progress has come at the hefty cost of environmental degradation. Climate change undeniably is one of the biggest challenges of the planet Earth and is largely anthropogenic. In the modern world context, the phenomenon of climate change is one of the most defining issues when it comes to realizing objectives of the Sustainable Development Goals (SDGs). Climate change is not limited to geographical boundaries; it is a global problem hence requires global solutions. It has been widely discussed and therefore has acquired centre stage across the major world forums. *Smart Energy Practices for a Sustainable World* how we all can contribute stresses the need for us to judiciously sustainably and smartly harness and use energy techniques in order to effectively combat climate change. The book also gives an in-depth discussion on utilization of artificial intelligence and information technology to realize energy efficiency in various sectors of economy including but not limited to transportation, buildings, infrastructure, health care, and other services. Text is supplemented by case studies that depict ground level reality to facilitate comprehension of the subject matter. The appendices serve as an extended learning of the concepts discussed in the chapters. The publication would serve as a valuable reference for both scholars and researchers engaged in the domain in addition to being a guide to industry as well as the academic world.

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Appendices

Sustainable Building Design Chitrarekha Kabre, 2017-10-10 This book bridges the gap between research

and practice in the area of sustainable design of buildings exploring the passive climate responsive design and thermal behavior of buildings and ways to incorporate these enhancements in architectural and civil engineering practice It presents climatic data and its analysis in a readily usable form and shows ways in which such data can be used to achieve passive climate responsive and sustainable building design The book presents case studies of sustainable building in each of five climatic zones of India The book includes climatic data from 62 cities in India and describes how it can be synthesized in sustainable building design The book can serve as a practical tool or handbook for architects engineers and designers providing them with an understanding of the physical phenomena involved and a means for suitably implementing and applying passive climate responsive design principles It also offers a valuable resource for researchers students and policymakers working in the area of sustainable building design and construction *Rainwater Harvesting* Anil

Lalwani,2022-09-09 Our dependency on groundwater resources and overuse thereof has led to a decline in water table so that in the last couple of decades the focus has shifted back to the traditional practices of rainwater harvesting and ways and means have been sought to promote Rainwater harvesting in Urban areas to recharge the stressed groundwater systems This book discusses in brief the classifications of Rainwater harvesting and the various rainwater harvesting systems that are currently applied The most important aspect for achieving any groundwater recharge is the availability of source water this can be evaluated by analyzing the monsoon rainfall pattern its frequency number of rainy days and maximum rainfall in a day and its variation in space and time The Deccan basalts are one of the most enigmatic rocks in India and pose a very difficult task when it comes to ground water exploration and groundwater recharge especially in the urban areas where due to constraint of space one needs to resort to borewells for recharge purpose It is important for any such undertaking to understand the applicability and sustainability aspects of Rainwater harvesting as it is being practiced This book tries to differentiate the Basaltic Aquifers from the other hard rock Aquifers and highlights the difficulties in trying to implement rainwater harvesting by groundwater recharge with the basaltic terrain It also deals with the issue of long term sustainability of roof top Rainwater to meet the growing demands of fresh water It also highlights some of the shortcomings in the methodologies used and the requirements for being considered in the various categories of green building rating agencies It furthermore clarifies the possibility and limitations of dependence of roof top harvesting in addressing the question of water shortages which is of common occurrence within most urban centres of India It also helps in clarifying major misconceptionsthat are currently prevailing regarding Roof top Rainwater harvesting especially within the low capacity aquifers within the hard rock terrain of the Deccan basalts **Climate Resilient, Green and Low Carbon Built**

Environment Ashok Kumar Jain,2023-04-26 This book constitutes state of the art research covering a wide range of topics including climate change and carbon emissions air quality and pollution control urbanism land and circular economy sustainable transport energy water biodiversity and greenery environmental services housing and construction with respect

to the built environment The concepts of sustainability in built environment conclude with reimagining the city The content includes pedagogical features such as examples simple flowing language and over 100 figures The book aims to motivate architects engineers consultants builders and planners to respond to the challenges of sustainability in the built environment

Strategic Management, Decision Theory, and Decision Science Bikas Kumar Sinha, Srijib Bhusan Bagchi, 2021-08-31 This book contains international perspectives that unifies the themes of strategic management decision theory and data science It contains thought provoking presentations of case studies backed by adequate analysis adding significance to the discussions Most of the decision making models in use do take due advantage of collection and processing of relevant data using appropriate analytics oriented to provide inputs into effective decision making The book showcases applications in diverse fields including banking and insurance portfolio management inventory analysis performance assessment of comparable economic agents managing utilities in a health care facility reducing traffic snarls on highways monitoring achievement of some of the sustainable development goals in a country or state and similar other areas that showcase policy implications It holds immense value for researchers as well as professionals responsible for organizational decisions

Smart & Sustainable Infrastructure: Building a Greener Tomorrow Nemkumar Banthia, Salman Soleimani-Dashtaki, Sidney Mindess, 2024-02-19 This book gathers peer reviewed contributions presented at the 1st Interdisciplinary Symposium on Smart Sustainable Infrastructure ISSSI held in Vancouver BC Canada on September 4 8 2023 and affiliated with the 77th RILEM Annual Week 2023 Aiming at creating an environment of mutual cooperation between experts in materials and structures it covers topics such as sensors IoT and structural health monitoring AI and machine learning data analytics for infrastructure management nanotechnology additive manufacturing smart and bioinspired materials durability of materials and structures resilience to earthquakes floods fire and blast carbon reduction in construction and operations and sustainable ultra high performance materials The contributions which were selected through a rigorous international peer review process share exciting ideas that will spur novel research directions and foster new multidisciplinary collaborations

Planning and Designing of Specialty Healthcare Facilities Shakti Kumar Gupta, Sunil Kant, R Chandrashekhar, 2020-06-30
1 Burns and Reconstructive Surgery Center 2 Birthing Center 3 Assisted Reproductive Technology Facility 4 Mother and Child Health Center 5 Organ Transplant Center 6 Catheterization Laboratory Facility 7 Cardiothoracic and Vascular Surgery Center 8 Oncology Center 9 Nuclear Medicine Facility 10 Palliative Care Facility 11 Biosafety Laboratory 12 Clinical Decision Making Facility 13 Geriatric Healthcare Facility 14 Rehabilitation Center for Locomotor Disability 15 Trauma Care Facility 16 Mobile Health Unit 17 Renal Disease Center 18 Dialysis Facility 19 Critical Care Unit 20 Isolation Facility 21 Spinal Injury Center 22 Center for Hepatobiliary Diseases 23 Endoscopy Unit 24 Integrated and Hybrid Operating Room 25 Endocrinology and Metabolic Facility 26 Respiratory Medicine Facility 27 Sports Injury Center 28 Facility for Nanomedicine and Nanotechnology 29 Stem Cell Facility 30 Facility for Robotic Surgery 31 Sleep Center 32 Neurosciences Center 33 Renal

Disease Center 34 Mental Health Facility 35 Chemical Biological Radiological and Nuclear Facility 36 Ophthalmology Center 37 ENT Audiology Clinic and Speech Therapy Center 38 Center for Cosmetic Surgery 39 Wellness Center 40 Green Hospitals 41 Smart Hospital 42 Telemedicine 43 Center for Dental Services 44 Lighting in Hospitals 45 Building Management Systems 46 Lean Healthcare Facility Design 47 Urgent Care Facility 48 Bariatric Surgery Facility 49 Hospital Management Information System 50 Ready Reckoner

Introduction to Green Buildings & Built Environment IGBC,2023-02-01 To dissipate the knowledge on green concepts to the students IGBC has developed a comprehensive and holistic book Introduction to Green Buildings Built Environment The objective of this book is to encourage inspire budding young professionals to take path of sustainability and carry forward the baton for a greener future This book is one of a kind publication which aims to throw light on various sustainability principles and equip the students with importance benefits of green concepts The book covers green aspects related to Sustainable Sites Water Management Energy Management Materials Resources and Indoor Environmental Quality The Architectural Engineering educational institutions across the country can adopt this book into their curriculum or elective courses to facilitate the students with exposure on various green concepts and latest trends technologies during design construction operations of different building typologies Contents 1 Site Selection and Planning 2 Water Management 3 Energy Efficiency 4 Sustainable Building Materials 5 Indoor Environmental Quality Book Review I am delighted to note that IGBC has launched the Green Education Programme which would facilitate Academia Industry linkage on green concepts This book on Introduction to Green Buildings and Built Environment which is released as part of the Green Education initiative of IGBC will enable students to be industry ready The book will also equip students to carry forward the National agenda on green and reach newer heights Anil D Sahasrabudhe Chairman All India Council for Technical Education AICTE As we march ahead in facilitating a greener India and Net Zero Mission goals we need more qualified professionals who can facilitate green building projects in the country Launch of the IGBC Green Education Programme and this book on Introduction to Green Buildings and Built Environment are important steps in sowing the seeds of green and igniting the minds of the younger generations V Suresh National Chairman Indian Green Building Council IGBC

Environmental Restoration Deepankar Kumar Ashish,Jorge de Brito,2022-03-03 This book gathers peer reviewed contributions presented at the F EIR Conference 2021 Environment Concerns and its Remediation held in Chandigarh India on October 18 22 2021 The respective papers focus on environmental monitoring and remediation and cover topics such as efficiency in the use of energy water resources and human capital waste minimization management durability and sustainability of building materials green technologies environmental sustainability and resilience renewable energy prevention and management of water pollution life cycle assessment and climate change Accordingly the book offers a valuable up to date tool and essential overview of the subject for scientists and practitioners alike and will inspire further investigations and research

5G Enabled Technology for Smart City and Urbanization System Susheela

Hooda,Vidhu Kiran,Rupali Gill,Durgesh Srivastava,Jabar H. Yousif,2024-12-04 This book examines the applications trends and challenges of 5G Enabled technologies for Smart City and Urbanization systems It addresses the challenges to bringing such capabilities of 5G enabled technologies for smart cities and urbanisation into practice by presenting the theoretical as well as technical research outcomes with case studies It covers key areas including smart building smart health care smart mobility smart living smart surveillance and IOT based systems It explains how these systems are connected using different technologies that support 5G access and control protocols Offers a comprehensive understanding of the emergence of 5G technology and its integration with IoT Big Data and Artificial Intelligence for smart city and urbanisation Focuses on useful applications of Smart City and Urbanization which can enhance different aspects of urban life Explores the advantages of using massive IoT and predictive analytics approaches in smart cities IoT Bigdata Deep learning and machine learning techniques are explained to fuel smart city and Urbanization system Addresses both theoretical and technical research outcomes related to smart city and urbanisation with 5G technology It serves as a valuable reference for graduate students researchers and m practitioners seeking to deepen their knowledge and engage with the latest advancements in the areas of Smart cities and Urbanization systems

Planning & Designing Health Care Facilities in Developing Countries

Shashikant Sharma,Saurabh Singh,2024-07-16 Building a clinically integrated workplace with a high level of clinical competence requires careful considerations of Hospital Planning For greenfield or brownfield hospital projects clinicians and C Suite executives need to acquire capabilities to address the planning needs of any organization This book aims to provide both theoretical and practical inputs for the Planning Designing of Health Care Facilities in Developing Countries It clearly indicates the steps to be followed facts to be weighed and components to be considered to arrive at a correct planning solution With health reform looming and the revenue base shifting rapidly we need to integrate patient safety concerns in the design process Key Features Liberal use of tables and figures to support conclusions illustrate concepts and display quantitative information making it easier for readers to understand and refer to large quantities of data Integrates the international norms for planning and designing health care facilities into the developing country setting Handbook and ready reckoner for C Suite executives hospital engineers project consultants and hospital administration students

Advances in

Smart Cities Arpan Kumar Kar,M P Gupta,P. Vigneswara Ilavarasan,Yogesh K. Dwivedi,2017-07-28 This is an edited book based on the selected submissions made to the conference titled International Conference in Smart Cities The project provides an innovative and new approach to holistic management of cities physical socio economic environmental transportation and political assets across all domains typically supported by ICT and open data

Emerging Dimensions of

Technology Management K B Akhilesh,2013-02-12 Technology is the key driver of business May it be airport ICT smart governance manufacturing or plantations Technology management opens up opportunities for the business and help achieve leadership positions This collection of papers provides a glimpse of issues faced in different sectors These papers also should

inspire more researchers to expand the scope of the subject itself *IGBC Green Homes® Rating System* Indian Green Building Council, 2013 **IGBC Green Factory Building**, 2009 *IGBC Green SEZ*, 2010 Proceedings of the 5th International Conference on Building Energy and Environment Liangzhu Leon Wang, Hua Ge, Zhiqiang John Zhai, Dahai Qi, Mohamed Ouf, Chanjuan Sun, Dengjia Wang, 2023-09-04 This book is a compilation of selected papers from the 5th International Conference on Building Energy and Environment COBEE2022 held in Montreal Canada in July 2022 The work focuses on the most recent technologies and knowledge of building energy and the environment including health energy urban microclimate smart cities safety etc The contents make valuable contributions to academic researchers engineers in the industry and regulators of buildings As well readers encounter new ideas for achieving healthy comfortable energy efficient resilient and safe buildings Die Bewertung von nachhaltigen Immobilien Christian Gromer, 2012-10-02 In Zeiten des Klimawandels und der Ressourcenverknappung r cken Immobilien zunehmend in den Fokus der ffentlichen Wahrnehmung Neben den wirtschaftlichen Vorteilen nachhaltiger im Vergleich zu konventionellen Immobilien untersucht Christian Gromer die wesentlichen Investoren und deren Motive Aufbauend auf diesen Ergebnissen sowie basierend auf dem Realoptionsgedanken entwickelt er ein Kapitalmarktmodell zur Ber cksichtigung einer energetischen Modernisierung im Immobilienwert

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