



The Ecology of Building Materials

Bjørn Berge
Translated by Filip Henley



Ecology Of Building Materials

Sandy Halliday



Ecology Of Building Materials:

Ecology of Building Materials Bjørn Berge, 2007-08-22 As both a practising architect and a researcher Berge introduces us authoritatively to issues such as using raw materials from renewable sources and the possibilities of designing and manufacturing reusable building materials The alternatives to modern building materials are outlined and discussed from an ecological perspective In a time when environmental labelling is becoming increasingly popular and the producers of building materials are urged to be more environmentally aware it is obviously important that we are acquainted with these alternatives Important issues discussed in this book include Can raw materials from non renewable sources be replaced with raw materials from widely available or non depletable sources Can environmentally friendly chemicals replace environmentally damaging ones Can the make up of building materials be altered so that individual components can be re used A clear interpretation of complicated Life Cycle Analysis issues and vital guidance are given to specifiers confronted with a plethora of manufacturers environmental claims *The Ecology of Building Materials* Bjørn Berge, 2001

The Ecology of Building Materials Bjørn Berge, 2017-11-06 The Ecology of Building Materials explores key questions surrounding sustainability of building materials It provides technical data to enable design and building professionals to choose the most appropriate materials for a project those that are least polluting most energy efficient and from sustainable sources The book also gives information and guidance on a wide range of issues such as recycling detailing for increased durability and Life Cycle Analysis Berge's book translated from the Norwegian by Chris Butters and Filip Henley offers safe and environmentally friendly material options It provides an essential and easy to use reference guide to this complex subject for the building industry professional New to this edition Thorough exploration of building materials in relation to climate change issues Extensive updating of basic data as well as the introduction of a wide range of new materials Methods for recycling and reuse of materials More information on the interaction between materials and the indoor environment ventilation and energy use Full colour text and user friendly larger format Bjørn Berge is a practicing architect researcher and lecturer Since the 1970s he has written several books on building ecology for the Scandinavian public He is one of the founders of Gaia Architects who have developed a wide range of pioneering techniques in sustainable building

The Ecology of Building Materials , Building Materials for Sustainable and Ecological Environment Varennyam Achal, Chee Seong Chin, 2021-05-29 This book uses theories hypotheses policies practical insights and case studies to introduce and elucidate green building materials for sustainable construction Cement is the most widely used building material in construction however it is not sustainable being responsible for 7% of global carbon dioxide emissions and consuming huge quantities of energy In order to limit the ecological damage sustainable building materials are needed Ecosystems are a source of important lessons and models for transitioning the built environment onto a sustainable path that opens options for sustainable building material in construction The book provides a guide for readers seeking knowledge on

sustainable building materials with the potential to lower environmental impact by reducing CO₂ emission throughout the building's lifecycle. The book is motivated by recent rapid advances in sustainable building materials production including green building materials made of industrial by products and recycled wastes, earth materials, plant based materials, microbial based materials or supplementary cementitious materials to reduce the environmental impacts of traditional building materials. Discussing the development and applications of various sustainable building materials including related case studies and addressing the environmental issue with a holistic and systematic approach that creates an ecology of construction for sustainability in infrastructures, it offers promising solutions to achieve renewable and sustainable building materials for the future. *Building Materials for Sustainable and Ecological Environment*, 2021. This book uses theories, hypotheses, policies, practical insights and case studies to introduce and elucidate green building materials for sustainable construction. Cement is the most widely used building material in construction; however, it is not sustainable, being responsible for 7% of global carbon dioxide emissions and consuming huge quantities of energy. In order to limit the ecological damage, sustainable building materials are needed. Ecosystems are a source of important lessons and models for transitioning the built environment onto a sustainable path that opens options for sustainable building material in construction. The book provides a guide for readers seeking knowledge on sustainable building materials with the potential to lower environmental impact by reducing CO₂ emission throughout the building's lifecycle. The book is motivated by recent rapid advances in sustainable building materials production including green building materials made of industrial by products and recycled wastes, earth materials, plant based materials, microbial based materials or supplementary cementitious materials to reduce the environmental impacts of traditional building materials. Discussing the development and applications of various sustainable building materials including related case studies and addressing the environmental issue with a holistic and systematic approach that creates an ecology of construction for sustainability in infrastructures, it offers promising solutions to achieve renewable and sustainable building materials for the future. *Ecological and Health Effects of Building Materials*, Junaid Ahmad Malik, Shriram Marathe, 2021-08-07. This book deals with the present adverse effects of using precarious building materials on the ecology and human health. Also, the detailed discussions on the novel and greener construction materials and their utilization as an alternative to the conventional harmful existing methods and materials are also presented in the subsequent chapters. This book helps to fill the research gaps in the existing prior art knowledge in the field of sustainable construction and green building materials and methods, giving due importance to ecology and health specifically to the fields of sustainable structural engineering, sustainable geotechnical engineering, sustainable road engineering, etc. This book helps in achieving a sustainable environment through possible adoption of innovative and ecological construction practices. Hence, this book acts as a practical workbook mainly for the academicians and practicing engineers who are willing to work toward the consecrated building industry. It is a well-established fact that the constructions

of the engineering structures consume more and more earth resources than any other human activities in the world In addition the construction related activities will produce several million tons of greenhouse gases toxic emissions water pollutants and solid wastes This creates a huge impact on environment and causes severe health issues on humans and animals It is thus important to create an eco friendly construction environment which can satisfy the ecological and health requirements An Ecology of Building Materials Russell S. Seavey,1973 **Material Architecture** John

Fernandez,2012-08-21 Composed of a series of essays this book deals with the broad issues affecting the nature of architectural materials and provides a focused review of the state of the art materials It also provides designers with the tools they need to evaluate and select from the thousands of different materials that are available to them The book is organized into three sections Time looks at how the materials used in architectural design have changed over the years showing how we have come to use the materials we do in contemporary design Materials covers all five material families metals polymers ceramics composites and natural materials giving in depth information on their properties behavior origins and uses in design It also introduces a review of the cutting edge research for each family Systems outlines the technical design orientated research that uncovers how new architectural assemblies can be designed and engineered All of this practical advice is given along with many real case examples illustrating how this knowledge and information has been and can be used in architectural design *Research Anthology on Environmental and Societal Well-Being Considerations in Buildings and Architecture* Management Association, Information Resources,2021-05-28 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 *Green Building Management and Smart Automation* Solanki, Arun, Nayyar, Anand, 2019-07-05

Throughout the world there is an increasing demand on diminishing natural resources in the industrial transport commercial and residential sectors Of these the residential sector uses the most energy on such needs as lighting water heating air conditioning space heating and refrigeration This sector alone consumes one third of the total primary energy resources available By using green building and smart automation techniques this demand for energy resources can be lowered Green Building Management and Smart Automation is an essential scholarly publication that provides an in depth analysis of design technologies for green building and highlights the smart automation technologies that help in energy conservation along with various performance metrics that are necessary to facilitate a building to be known as a Green Smart Building Featuring a range of topics such as environmental quality energy management and big data analytics this book is ideal for researchers engineers policymakers government officials architects and students **Materials for a Healthy, Ecological and Sustainable Built Environment**

Emina K. Petrović, Brenda Vale, Maibritt Pedersen Zari, 2017-03-23 Principles for Evaluating Building Materials in Sustainable Construction Healthy and Sustainable Materials for the Built Environment provides a comprehensive overview of the issues associated with the selection of materials for sustainable construction proposing a holistic and integrated approach The book evaluates the issues involved in choosing materials from an ecosystem services perspective from the design stage to the impact of materials on the health of building users The three main sections of the book discuss building materials in relation to ecosystem services the implications of materials choice at the design stage and the impact of materials on building users and their health The final section focuses on specific case studies that illustrate the richness of solutions that existed before the rise of contemporary construction and that are consistent with a sustainable approach to creating built environments These are followed by modern examples which apply some if not all of the principles discussed in the first three sections of the book Provides a holistic and integrated approach to the issues associated with the selection of materials for sustainable construction Provides a thorough understanding of ecosystem services based on ecology research for built environment design Provides an original review of the impact of materials on human health Provides case studies to illustrate the points above Encyclopedia of Renewable and Sustainable Materials

, 2020-01-09 Encyclopedia of Renewable and Sustainable Materials Five Volume Set provides a comprehensive overview covering research and development on all aspects of renewable recyclable and sustainable materials The use of renewable and sustainable materials in building construction the automotive sector energy textiles and others can create markets for agricultural products and additional revenue streams for farmers as well as significantly reduce carbon dioxide CO2 emissions manufacturing energy requirements manufacturing costs and waste This book provides researchers students and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the development selection and use of construction and manufacturing materials Covers a broad range of topics not

available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing use application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials *The Ecology of Architecture* Nicole Louise Fisher, 1993 *Frontiers of Green Building, Materials and Civil Engineering III* Jimmy Chih Ming Kao, Wen Pei Sung, Ran Chen, 2013-08-30 Selected peer reviewed papers from the Second International Conference on Green Building Materials and Civil Engineering GBMCE 2013 August 21 23 2013 Taiwan

Eco-efficient Construction and Building Materials Fernando Pacheco-Torgal, Luisa F. Cabeza, Joao Labrincha, Aldo Giuntini de Magalhaes, 2014-02-14 Eco efficient Construction and Building Materials reviews ways of assessing the environmental impact of construction and building materials Part one discusses the application of life cycle assessment LCA methodology to building materials as well as eco labeling Part two includes case studies showing the application of LCA methodology to different types of building material from cement and concrete to wood and adhesives used in building Part three includes case studies applying LCA methodology to particular structures and components Reviews ways of assessing the environmental impact of construction and building materials Provides a thorough overview including strengths and shortcomings of the life cycle assessment LCA and eco labeling of eco efficient construction and building materials Includes case studies showing the application of LCA methodology to different types of building material from cement and concrete to wood and adhesives used in building **Sustainable Construction** Sandy Halliday, 2008-01-14 It has taken a very long time for sustainable development to be recognised as a justified restraint on inappropriate development and a primary driver of improving quality of life for all For designers clients and project managers this means we have to create healthy buildings and places which support communities enhance biodiversity and contribute to reversing unsustainable trends in pollution and resource consumption It is a very positive agenda This groundbreaking book will help all building design management and cost professionals to understand sustainable design and provide the technical skills needed to implement the most up to date concepts Based on a hugely successful series of workshops for professionals in construction the book covers the history of ideas materials measurement both cost and benchmarking performance environmental services and the building design and delivery process through to post occupancy evaluation It covers individual buildings and the urban scale Sustainable Construction is a master class in how to achieve practical affordable replicable sustainable design It has something new and often surprising in it for everybody in the construction industry For the Architect and Engineer it gives chapter and verse to the basic design issues at all scales and through the whole of the plan of work For Quantity Surveyors and cost professionals it challenges current conventions with researched case study evidence For clients and project managers it outlines the drivers and the justification for a sustainable approach and outlines the legislative framework and it gives guidance on procurement and project and site management issues For contractors and developers it contains a wealth of case study

material rooted in practical experience and economic reality For teachers and students it will bust myths liberate thinking and inform design Ecological Building Materials for Deserts and Drylands Daniela A. Ottmann,2022-02-14 This book examines prospective climate adaptive building materials in desert and drylands in the context of climate change desertification urbanisation demands and the consequent sustainable urban development challenges This preliminary collection of ecological materials covers the characterisation of biotic and abiotic resources for materials their specifications and benefits for adequate bio climatic design and construction Particular emphasis is given to ecological composite materials for advances in desert architecture Based on the initial collection the book culminates with potentials for new ecological building materials The eComposite Combinator matrix offers potential research recipes and encourages the reader to conduct further climate matters related research **Ecology and New Building Materials and Products** Martina Drdlová,Martin Nejedlik,Lenka Smetanova,2014-08-11 Selected peer reviewed papers from the 18th Conference of Research Institute for Building Materials Ecology and New Building Materials and Products ICEBMP 2014 June 3 5 2014 ern Hora Czech Republic **Green Building, Materials and Civil Engineering** Jimmy C.M. Kao,Wen-Pei Sung,Ran Chen,2014-10-21 This book contains select green building materials and civil engineering papers from the 4th International Conference on Green Building Materials and Civil Engineering GBMCE which was held in Hong Kong August 21 22 2014 This volume of proceedings aims to provide a platform for researchers engineers academics and industry professionals f

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