

The Technology of Ecological Building

From Principles and Materials
to Systems and Details

David Givoni



Technology Of Ecological Building Basic Principles And Measures Examples And Ideas

Vidar Lerum



Technology Of Ecological Building Basic Principles And Measures Examples And Ideas:

The Technology of Ecological Building Klaus Daniels,1994 This book is an introduction to the technology of ecological building in the sense of integrated planning global prognoses and ecological cycles help to formulate guidelines for buildings in the future standards that must be observed if we are to guard against environmental crises The book presents the technology needed to integrate the supply of water heat cooling electricity natural ventilation and lighting into the building s structure and design from the start In short the book explains how to contribute now to the protection of natural resources by utilizing solar energy and rainwater geothermal and other thermal systems to name but a few

Advances in Building Energy Research Mat Santamouris,2013-07-23 Several high quality scientific journals are published in the area of building energy and indoor outdoor environment however one has been missing Advances in Building Energy Research fills the gap I recommend ABER to all technical libraries research institutes and universities It should also be used by construction companies and those manufacturing building materials and building products Professor Olli Sepp nen President of REHVA Federation of Heating and Air conditioning Associations Advances in Building Energy Research is a unique index It will be an inexhaustible resource for energy related sciences and a continuous inspiration for architects around the world N Fintikakis Architect and Director of UIA ARES WP Architecture and Renewable Energy Sources Advances in Building Energy Research ABER offers state of the art information on the environmental science and performance of buildings linking new technologies and methodologies with the latest research on systems simulations and standards As stringently reviewed as a journal but with the breadth of a book this annual volume brings together invited contributions from the foremost international experts on energy efficiency and environmental quality of buildings Spanning a broad range of technical subjects this is a must have reference on global developments in the field suitable for architects and building engineers environmental engineers industry professionals students teachers and researchers in building science technical libraries and laboratories

Green Technologies and Business Practices: An IT Approach Ordóñez de Pablos, Patricia,2012-08-31 Green technology plays an important role in the achievement of environmental sustainability Tax incentives carbon taxes and rising fossil fuel costs are motivating increased growth and development of green products and services many of which are the result of innovative discoveries in biotechnology and nanotechnology Green Technologies and Business Practices An IT Approach is an international platform that brings together academics researchers lecturers policy makers practitioners and persons in decision making positions from all backgrounds who ultimately share new theories research findings and case studies together enhancing understanding and collaboration of green issues in business and the role of information technologies and also analyze recent developments in theory and practice Furthermore this book demonstrates the capacity of green models and policies information technology and management for the mutual understanding prosperity and overall well being of all the citizens in the world This title is perfect for politicians professors policy makers government officers and

students alike **Future Forms and Design For Sustainable Cities** Mike Jenks,Nicola Dempsey,2006-08-11

Concentrating on the planning and design of cities the three sections take a logical route through the discussion from the broad considerations at regional and city scale to the larger city at high and lower densities through to design considerations on the smaller block scale Key design issues such as access to facilities access for sunlight life cycle analyses and the impact of communications on urban design are tackled and in conclusion the research is compared to large scale design examples that have been proposed and or implemented over the past decade to give a vision for the future that might be achievable

The Ecological Engineer David R. Macaulay,Jason F. McLennan,2006 THE ECOLOGICAL ENGINEER is a new book series that celebrates the most innovative engineers in North America and the practices and principles that they use to produce functionally outstanding structures systems and technologies in a way that embraces the emerging philosophy of sustainable design Organized into three critical sections Practice Principles and Projects the book provides a valuable resource and touchstone for engineers architects and other design professionals who hope to embrace an ethic that is responsible to both people and the environment VOLUME ONE KEEN ENGINEERING focuses on the innovative work of one of the leading sustainable MEP firms in North America KEEN Engineering As mechanical electrical and plumbing engineers who work on projects all over the continent they have consistently been inspiring on multiple levels as a company as individuals and just by the sheer volume and quantity of their work Provided by publisher **Experimental Green Strategies** ,2011 *The Elements of Architecture* Scott Drake,2014-02-04 The Elements of Architecture is a clear and well structured introduction to sustainable architecture which concentrates on general principles to make an accessible and comprehensive primer for undergraduate students The author takes a fresh and logical approach focusing on the way aspects of the built environment are experienced by the occupants and how that experience is interpreted in architectural design He works through basic elements and senses sun heat light sound air water and fire to explain and frame effective environmental architectural design not only arguing that the buildings we inhabit should be viewed as extensions of our bodies that interact with and protect us from these elements but also using this analogy to explain complex ideas in an accessible manner **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

Architecture and Ideology Mirjana Roter Blagojević, Marta Vukotic Lazar, Vladimir Mako, 2014-06-02 Architecture and Ideology consists of twenty two essays arranged in four thematic units Ideological Context of Architecture City and Power Morphology and Ideological Patterns and Designers and Ideology The subjects that are investigated and elaborated are connected with the influences of different 20th century political and social ideologies on urban development and the architecture of various European cities from the east and the west The authors are professors and scientific researchers from various European universities and institutions and theoreticians of architecture architectural historians and aestheticians and architecture practitioners The majority are from Serbia and other countries from the former Yugoslav Republic namely Croatia Macedonia and Bosnia and Herzegovina though countries such as Hungary Russia Italy Austria Germany Netherlands and the UK are also represented The essays will be of interest to university professors and students researchers in the history and theory of architecture and city and professionals in art and architecture as well as sociologists historians and philosophers

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

Sustainable Building Design Vidar Lerum, 2015-09-07 A twenty first century renaissance is emerging in architecture After a century of building designs characterized by high energy demand low quality lighting and poor thermal comfort the fundamental questions must be asked again is there a better path to designing the most energy efficient comfortable functional and beautiful buildings for a sustainable future While seeking solutions for the future are there lessons to be learned from the best buildings of the past Sustainable Building Design explores outstanding buildings and building designs of the twenty first century with an emphasis on the artistry of masters of architecture who came before By

dissecting and analyzing great public buildings of the nineteenth and twenty first centuries materials techniques and methods are discovered This book presents the reader with clues and suggestions that will reveal the secrets of these buildings and by doing so provides the reader with a thorough understanding of how these architectural masterpieces work Using photographs drawings sections plans and diagrams which are painstakingly redrawn for consistency and clarity based on a wide range of documentation Vidar Lerum compares works of architecture from the nineteenth and twenty first centuries The reader is presented with a careful analysis of each building providing a compelling sourcebook of ideas for students and professional architects alike

Building Envelopes Jenny Lovel,2013-07-02 Few parts of a building work harder than its envelope also known as its facade The envelope is the part of the building most visible from the outside so it should be visually appealing but it can also have the biggest effect on the well being and safety of its occupants so the envelope should be help heat and cool the building allow light into it and provide necessary structure Too often a building s envelope is more aesthetically striking than functional or vice versa A great building envelope though architecturally integrates all of its elements

Smart Architecture Ed van Hinte,2003

Designing the Exterior Wall Linda Brock,2005-06-20 By presenting the basics of building science along with a prescribed set of details Designing the Exterior Wall helps you understand why buildings fail and how they can be made more durable through design Author Linda Brock connects the science and aesthetics of building envelopes through the examination of a variety of construction and cladding types She features details from real world projects in a variety of climates successful and unsuccessful case studies and checklists you can use on your own projects Helps you reduce your liability by showing why building envelopes fail and how they can be designed to endure Moves from theory to actual construction by including hundreds of building envelope details from a broad array of projects and climates Integrates numerous contemporary case studies including Frank Gehry s Experiential Music Center in Seattle thin skins Renzo Piano s Rue de Meaux housing in Paris terra cotta cladding and Mario Botta s San Francisco Museum of Modern Art prefabricated brick panels Designing the Exterior Wall is a must have book whether you re an architect or a student Order your copy today

Energy Efficient Buildings Eng Hwa Yap,2017-01-18 This book discusses energy efficient buildings and the role they play in our efforts to address climate change energy consumption and greenhouse gas emissions by considering buildings and the construction sector s unique position along a critical path to decarbonisation from a multi perspective and holistic viewpoint Topics covered in the book range from daylighting building topology comparison building envelope design zero energy homes in hot arid regions life cycle considerations and energy efficiency analysis to managing energy demand through equipment selection Each chapter addresses an important aspect of energy efficient building and serves as a vital building block towards constructing a timely and relevant body of knowledge in energy efficient buildings

Heating, Cooling, Lighting Norbert Lechner,2014-10-13 Sustainable environmental control through building design Heating Cooling and Lighting is the industry standard text on environmental control systems with

the emphasis on sustainable design By detailing the many factors that contribute to the comfort in a building this book helps architects minimize mechanical systems and energy usage over the life of the building by siting building design and landscaping to maximize natural heating cooling and lighting This new fourth edition includes new information on integrated design strategies and designing for the Tropics Resources include helpful case studies checklists diagrams and a companion website featuring additional cases an image bank and instructor materials Designing buildings that require less energy to heat cool and light means allowing the natural energy of the sun and wind to reduce the burden on the mechanical and electrical systems Basic design decisions regarding size orientation and form have a great impact on the sustainability cost and comfort of a building Heating Cooling and Lighting provides detailed guidance for each phase of a design project Readers will Understand the concept of sustainability as applied to energy sources Review the basic principles of thermal comfort and the critical role of climate Learn the fundamentals of solar responsive design including active and passive solar systems as well as photovoltaics Discover how siting architectural design and landscaping can reduce the requirements for mechanical and electrical systems In sustainable design mechanical and electrical systems should be used to only accomplish what the architect could not by the design of the building itself With this in mind designers require a comprehensive understanding of both the properties of energy and the human factors involved in thermal comfort Heating Cooling and Lighting is the complete industry leading resource for designers interested in sustainable environmental control

Precedented Environmental Futures Colin Porteous, 2019-04-17 This book addresses the built environment through the lens of environmental architecture and in a holistic manner It moves gradually from psychophysiology and thinking doing feeling modalities through environmental criteria to environmental modulation concluding with a debate around mitigation and adaptation Much use is made of re interpreting past quotations seen as relevant for environmental architecture No definitive conclusions are reached but rather broad discursive messages are offered The text will have lasting luminance for new generations involved with the built environment

Indoor Air Lidia Morawska, Neville D. Bofinger, Marco Maroni, 1995 The Indoor Air An Integrated Approach international workshop held in Australia 27 November 1 December 1994 provided an unequalled forum for the development of an integrated approach to the research health risk assessment and management of indoor air quality The aims of the workshop were to discuss strategies for comprehensive characterisation of indoor air develop a framework for integrated health risk assessment integrate strategies for controlling and managing all indoor air pollutants and define areas for future research that will lead to an overall improvement of indoor air quality

Insulating Modernism Kiel Moe, 2014-08-20 What is the best way to consider energy in buildings For over a century the building industry has largely focused on ideas of insulation and isolation for its energetic practices A growing movement of designers claim that other concepts and practices are required for the non isolated energy systems of architecture This book describes the history theory and facts of the mainstream isolation technologies and the emerging alternative design approaches It is a

book on the scientific material and design history of building isolation but more importantly it is a book on isolated and non isolated perspectives on energy in architecture Written by a registered practicing architect with detailed technical knowledge who is at the same time a researcher and experienced teacher the aim is to understand the different scientific architectural and cultural approaches to energy and to promote a non isolated perspective a thermodynamically accurate ecologically powerful culturally relevant and architecturally ambitious perspective on energy in architecture [Linking Architecture and Education](#) Anne Taylor,2009-05-16 For the past forty years Anne Taylor has studied how schools classrooms playgrounds homes museums and parks affect children and how they learn As a result she has developed a holistic sustainable philosophy of learning environment design She argues persuasively that architects must integrate their design knowledge with an understanding of the developmental needs of learners while at the same time educators parents and students must broaden their awareness of the built natural and cultural environment to maximize the learning experience In other words schools and other environments can themselves become three dimensional textbooks When architects are cognizant of newer models of education and educators view the environment as more than a box in which to teach prescribed lessons the result is an informed architecture that enables children to discover the power of their own learning The book presents numerous examples of dynamic designs that are the result of interdisciplinary understanding of place Taylor includes designer perspectives forums derived from commentary by outside contributors involved in school planning and a wealth of photographs of thoughtful and effective solutions to create learning environments from comprehensive design criteria Because the concept of school is enlarged to a community campus the book also spawns a new model of teaching and learning This book is essential reading for educators architects and community members who are anxious to transform education in America and elsewhere Anne Taylor is the most outstanding educator leading proponent and practitioner in the three dimensional textbook field Her work is the finest resource available for connecting students young and old to their learning environments and visa versa Edward E Kirkbride NCARB REFP Before Western man divided the universe into discrete subject matter areas the order in the universe was and still is both interdisciplinary and holistic The branching of trees spiraling of shells meandering of streams and the radial designs of flowers for example represent an analogy of mathematics biology and art The current artificial separation of subject matter is in contrast to the way the world is constructed and the way children perceive it Architecture and the study of the built natural and cultural environment synthesize the world of material things and the world of ideas Further more it helps us to realize that we are a part of not apart from the environment This book is a tool and a gift to designers educators and students everywhere to assist them in seeing the meaning behind all that we view and use for living on earth To know our precious relationship to our surroundings is the intent of this book In this way life is a work of art and each of us is an artist Anne Taylor

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