

ESLIFE FOUNDATION

2011

ANNUAL REPORT

2011-2012

STRATEGY

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# Buildings Of Earth Straw

**Bruce King**



## **Buildings Of Earth Straw:**

*Buildings of Earth and Straw* Bruce King,1996 Straw bale and rammed earth construction are enjoying a fantastic growth spurt in the United States and abroad When interest turns to action however builders can encounter resistance from mainstream construction and lending communities unfamiliar with these materials *Buildings of Earth and Straw* is written by structural engineer Bruce King and provides technical data from an engineer s perspective Information includes special construction requirements of earth and straw design capabilities and limitations of these materials and most importantly the documentation of testing that building officials often require **Light Earth Building** Franz Volhard,2016-04-11 The interest in clay as a building material which has proved its sustainable characteristics over centuries is growing Light clay which is light in weight and easy to work is presented here as a versatile and forward looking building material for modern computer aided timber construction and the renewal of historic timber framed buildings with clay infill The balanced building physics properties of the material which can be controlled through the mixing proportions make it suitable for resource efficient building in various different climate zones Thermal storage sound insulation protection against moisture and fire in conventional timber construction are improved and the construction is simplified This standard publication describes detailed production methods includes practical tips for self building and demonstrates the application of ready made materials in modern construction The book is aimed at architects engineers and their clients as well as for listed building officers manufacturers tradesmen and self builders *Earth Building* Laurence Keefe,2012-05-15 Buildings with load bearing earth walls were once widespread throughout Britain and many thousands still survive including some dating from the fourteenth and fifteenth centuries Earth is the ultimate form of green building construction creating no environmental pollutions and consuming virtually no energy Subsoil can be dug from or near the site to construct buildings that will meet modern needs and conform to the latest building regulations This book describes all aspects of earth building explaining how earth performs as a building material and providing guidance on how best to repair and conserve existing earth buildings

*Sustainable Architectural Design* Kuppaswamy Iyengar,2015-05-15 This book is a guide to a sustainable design process that moves from theory to site and energy use to building systems and finally to evaluation and case studies so you can integrate design and technology for effective sustainable building Kuppaswamy Iyengar shows you how to get it right the first time use free energy systems and utilise technologies that minimize fossil fuel use Each chapter has a sustainable design overview technical details and strategies marked by clear sections a summary and further resources Heavily illustrated with charts tables drawings photographs and case studies the book shows technologies and concepts integrated into cohesive project types from small and large office spaces to single and multiuse residences hospitals schools restaurants and warehouses to demonstrate implementing your designs to meet clients needs now and for the future Includes an overview of alternate assessment and evaluation systems such as BREEAM CASBEE GBTool Green Globes alongside LEED ECOTECH

energy 10 HEED and eQuest simulation programs The guide reveals the importance of the building envelope walls superstructure insulation windows floors roofs and building materials on the environmental impact of a building and has a section on site systems examining site selection landscape design thermal impact and building placement **The Earth Care Manual** Patrick Whitefield,2004 The long awaited exploration of permaculture specifically for cooler Northern Hemisphere climates is finally here Already regarded as the definitive book on the subject The Earth Care Manual is accessible to the curious novice as much as it is essential for the knowledgeable practitioner Permaculture started out in the 1970s as a sustainable alternative to modern agriculture taking its inspiration from natural ecosystems It has always placed an emphasis on gardening but since then it has expanded to include many other aspects from community design to energy use It can be seen as an overall framework that puts a diversity of green ideas into perspective Its aims are low work high output and genuine sustainability **Building with Straw** Gernot Minke,Friedemann Mählke,2005 Economical ecological designing and building with straw Building with straw bales is a technique pioneered a century ago in the state of Nebraska In recent years there has been a renaissance in the use of straw as a building material largely in the American Southwest but also in Canada France Holland Germany Austria and China Straw is a renewable resource with excellent insulating properties It is a cheap and easy to use option for self builders and even large scale structures can be erected using timber frame work filled with straw This book is a practical hands on guide to building with straw Fire safety protection against moisture damp pests and parasites are treated in detail Numerous on site photos document the process of assembly and construction step by step 30 exemplary international projects illustrate the wide spectrum of design possibilities with straw **Real Goods Solar Living Source Book** John Schaeffer,Alan Berolzheimer,Bill Giebler,2008 The essential renewable energy resource completely revised and updated for 2008 **Sustainability Principles and Practice** Margaret Robertson,2014-03-14 Sustainability Principles and Practice gives an accessible and comprehensive overview of the interdisciplinary field of sustainability The focus is on furnishing solutions and equipping the student with both conceptual understanding and technical skills for the workplace Each chapter explores one aspect of the field first introducing relevant theory and presenting issues then supplying tools for working toward solutions Elements of sustainability are examined piece by piece and wide coverage ranges over ecosystems social equity environmental justice food energy product life cycles cities and more Techniques for management and measurement as well as case studies from around the world are provided Chapters include further reading discussion questions and problems to foster quantitative thinking The book is supported by a companion website with key website links detailed reading lists glossary and additional case studies together with numerous projects research problems and group activities all of which focus on real world problem solving of sustainability issues The textbook is designed to be used by undergraduate college and university students in sustainability degree programs and other programs in which sustainability is taught *Farm building and equipment plans and information series*

U.S. Extension service. Office of cooperative extension work,1929      **The Real Goods Solar Living Sourcebook** John Schaeffer,1999 Covers power conservation and gear      **Handbook of Building Construction** George A. Hool,Nathan C. Johnson,1920      **Modern Pisé-building; House-building with Compressed Or Rammed Earth** Karl Johan Ellington,1924      *Modern Building* ,1921      **Cottage Building in Cob, Pisé, Chalk & Clay** Clough Williams-Ellis,1920  
Gaiam Real Goods Solar Living Sourcebook John Schaeffer,Doug Pratt,2001 Covers power conservation and gear  
**Building Age** ,1927      **Rammed Earth Walls for Farm Buildings** R. L. Patty,1933      **Carpentry and Building** ,1892      **Lower Cost Buildings** Edward Warren Coffin,Harry Baker Humphrey,1924      **Design of Straw Bale Buildings** Bruce King,Mark Aschheim,2006 A design manual for practicing professionals this title draws on the collective experience of the most senior and respected figures in the rapidly emerging field of straw bale construction

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