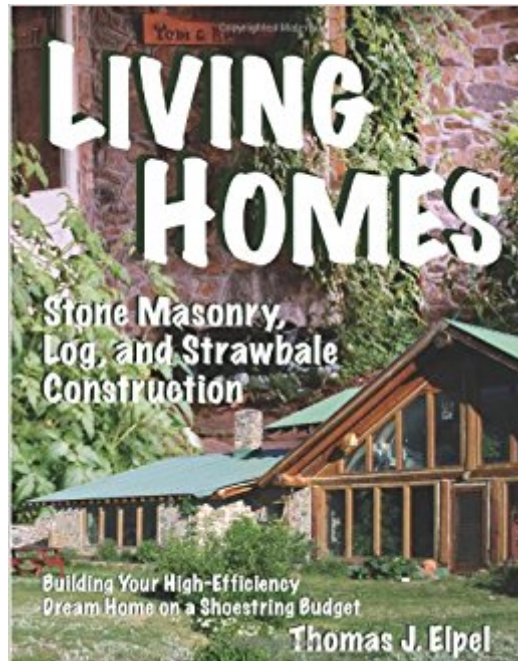




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# Living Homes: Stone Masonry, Log, And Strawbale Construction



## Synopsis

The house of your Dreams does not have to be expensive. The key is all in the planning. How much a house costs, how it looks, how comfortable it is, how energy-efficient it is - all these things occur on paper before you pick up even one tool. A little extra time in the planning process can save you tens of thousands of dollars in construction and maintenance. That is time well spent! Living Homes takes you through the planning process to design an energy and resource efficient home that won't break the bank. Then, from the footings on up to the roof, author Thomas J. Elpel guides you through the nuts and bolts of construction for slipform stone masonry, tilt-up stone walls, log home construction, building with strawbales, making your own terra tile floors, concrete countertops, windows and doors, solar water heaters, masonry heaters, framing, plumbing, greywater, septic systems, swamp filters, painting and more!

Table of Contents   Introduction:   Building a House on Limited Means:   The Elimination of all that is Unnecessary to Achieve a Dream   Part I: Dreams, Goals and Ecology   Integrated Design and Construction: Homesteading in the Twenty-first Century   Choosing a Location:   Planning a Thousand Years into the Future   Disaster-Proofing Your Home:   Preventing the Obvious. Preparing for the Inevitable   Building Codes, Permits and Inspections:   Exceed the Minimum Standards!   Defining Your Goals:   A Blueprint is the Sum of the Criteria   Part II: Principles of Energy Efficiency   Warm Houses for Cold Climates:   Insulation, Thermal Mass, Solar Gain, and Air Locks   Insulation and Insulation Systems   Many Choices, Most of Them Bad   Air Quality:   Finding Fresh Air in a High-Efficiency House   Part III: Building the Walls   Footings, Foundations and Floors:   Starting from the Bottom Up   Cement Mixing & Measuring:   Aggregates, Admixtures, Substitutes, and Reinforcement   Slipform Stone Masonry:   A Stone Masonry Primer   Tilt-up Construction:   A New Lift to the Ancient Art of Stonework   Log Building Basics:   For Builders with Little Time or Experience   Building with Bales:   It's Fast, Inexpensive, and Energy Efficient   Part IV: Closing It In   Putting the Roof On:   The Search for Better Solutions   Terra Tiles:   Hand-Made Tile Floors from Sand, Cement, Dirt, and Dye   Wood Frame Construction:   Building Interior Floors and Walls   Windows and Doors:   Putting a Plug in the Thermos   Part V: Plumbing, Heating, and Wiring   Water Supply, Management, and Recycling   Squeezing More Use out of Less Water   Practical Plumbing:   Important Tips I Could Have Used   Heating Systems:   For Backup Heat & Hot Water   Revival of the Masonry Stove:   An Old, but Efficient Heating System   Electricity:   Wiring the Alternative Home   Rethinking Appliances:   Energy Efficiency is the Path to Independence   Part VI: Finishing Details   Concrete and Fly Ash Countertops:   A Nice Kitchen Doesn't have to Be Expensive   A Primer on Paint:   Reusing and Recycling   Conclusion - Reinventing Housing:   The Road to Sustainability   Bibliography   Index

## Book Information

Paperback: 240 pages

Publisher: HOPS Press, LLC; Sixth edition (May 15, 2010)

Language: English

ISBN-10: 1892784327

ISBN-13: 978-1892784322

Product Dimensions: 8.5 x 0.7 x 11 inches

Shipping Weight: 2.1 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars 30 customer reviews

Best Sellers Rank: #456,685 in Books (See Top 100 in Books) #44 in [Books > Crafts, Hobbies & Home > Home Improvement & Design > Energy Efficiency](#) #191 in [Books > Engineering & Transportation > Engineering > Reference > Architecture > Methods & Materials](#) #208 in [Books > Arts & Photography > Architecture > Sustainability & Green Design](#)

## Customer Reviews

This highly creative guide helps the non-builder become conversant with terms, materials, and techniques necessary to build one's dream home. -- The Islands' Weekly Newspaper. Lopez Island, Washington. June 15, 2004. (Review of the 4th Edition.) This isn't mere theory but is firmly grounded in Elpel's hands-on experience creating durable, energy-efficient buildings on a shoestring. -- Fine Homebuilding. February/March 2003. (Review of the 4th Edition.) This hefty book (250 pages, 8.5" X 11") is chock full of detailed information, personal musings, photos and diagrams, and practical tips. Thomas Elpel is a do-it-yourselfer after my own heart, and what he has compiled here chronicles his adventures of building his own home in rural Montana as well as experiences with other building projects. He and his wife were forced by circumstances to find inexpensive solutions for all of the challenges of building their home, and they managed to do this without sacrificing their commitment to energy efficiency and sustainability. Their home is a true hybrid, with the first floor being slip-formed stone masonry and the second story of logs, all sourced locally and ecologically. Thomas explains in great detail exactly how he put together this house, sufficiently for others to follow his lead without much more need for instruction. In addition, the book is liberally dosed with Thomas's philosophy of how to homestead ecologically in the 21st Century. He starts with how to choose an appropriate location, then proceeds to describe strategies for disaster-proofing your home. He emphasizes how important it is to define the goals you have for your home before even coming up with a design. Part Two of the book explores principles of energy efficiency, delving into a

discussion of the need for excellent insulation, coupled with thermal mass and solar gain for a truly ecological house. The pros and cons of various insulation systems are defined, with charts of R-values. etc. There is a chapter devoted to interior air quality. Part Three launches into the nitty gritty of exactly how to build using the methods that the author is familiar with. There is a thorough review of various strategies for creating footings, foundations and floors. This leads to a primer about the properties of concrete and how to mix and pour it. The instructions for building stone walls are specific to slip-forming, which tends to be fairly straight forward and simpler for folks who are not skilled in the art of free-form stone masonry. The log-building technique that Thomas chose to use for his house is one of the simpler approaches, where little notching and careful fitting and trimming is required. Round logs are just stacked one on top of the other, using rebar pins to hold them in place. It is possible to build entire walls this way, and then cut out doors and windows later. The spaces between the logs are eventually insulated and chinked to make the wall air tight. The basics of strawbale building are presented in one chapter, detailing how a large load-bearing strawbale shop was built. The information about strawbale is not as thorough as it is with the previous chapters on stone and log building, but there is enough of an overview to give the reader an idea of what is involved. All of the wall-building techniques described so far require a framed roof of some sort, and the author goes into some detail about the possibilities for doing this. One method shown is fairly simple and straight forward, where a log ridge pole is placed first, and then rafters are bolted together on top of this, supported at the other end with another log. This can then support a variety of roofing materials, such as metal sheets or shingles. In order to present a thorough overview of all of the basics of house building, the author also has surprisingly comprehensive chapters on plumbing and electrical wiring. Strategies for solar water and space heating are discussed. All-in-all I give this book very high marks for providing useful information compiled in a logical and detailed manner. A person really could attempt to build their own house using nothing but this book as a guide, which is more than can be said for most building how-to guides. --Kelly Hart, GreenHomeBuilding.com

**A Positive Relationship with Nature** Our culture teaches us that we are separate from nature. We spend most of our lives in houses surrounded by manicured lawns, living in towns or cities where recreational activities are based on human-centered sports. Nature is something we go to a park to see, or we watch a show about it on TV. Those of us in the field of environmental education try to preach a different message, telling people that "all life is interconnected" and that "we really are part of nature". But in the next breath we tell them to stay on the trails and to practice "no-trace"

camping. We tell them to look at nature and photograph it, but not to touch it. We tell them our modern way of life is destroying nature, and that we need to stop mucking up the planet. In other words, we tell them we are part of nature--the bad part! Here at HOPS Press, LLC we advocate a positive interactive relationship with the natural world. We want people to get involved in nature, to be a part of the process on many levels: Through Participating in Nature: Thomas J. Elpel's Field Guide to Primitive Living Skills and the Art of Nothing Wilderness Survival Video Series, you can experience an intimate connection with nature as you rediscover the skills our ancestors used to survive for tens of thousands of years. Instead of merely camping in the wilderness or passing through it, you will become part of the process as you learn about nature by using it to meet your needs for shelter, fire, water and food. Learn to set aside the trappings of modern culture and step directly into nature with little or nothing, to experience nature on its own terms. With Tom's book Botany in a Day: The Patterns Method of Plant Identification, you can connect with the wonderful diversity of plants and flowers all around you in a way that you may have never imagined. Instead of seeing the green world as little more than pretty wallpaper, you will learn to know the individual plants, wildflowers and weeds as if they have been your life-long friends. Our book Shanleya's Quest: A Botany Adventure for Kids Ages 9-99 utilizes the same patterns method of identifying plants as Botany in a Day, but in a metaphorical story form where children of all ages can join young Shanleya on her journey to learn the plant traditions of her people. In Living Homes: Integrated Design & Construction you will learn how to make your home part of nature, as well as how to make nature part of your home. Learn the secrets to building low-cost, high-efficiency homes with stone masonry, log-building and strawbale construction methods. With this book and Tom's Slipform Stone Masonry DVD/VHS Video you will be able to build your quality, earth-friendly Dream home on a budget, even while the "experts" say it isn't cost effective. Finally, in Direct Pointing to Real Wealth: Thomas J. Elpel's Field Guide to Money, you will learn to see the economy as an ecosystem where money is a token that represents calories of energy. Learn the basic rules of this economic ecosystem and you will be empowered to use your resources to more effectively achieve your desired quality of life, while making the world a better place to be. You will be able help convert an economy that harms planetary biodiversity into an economy that helps restore it. --This text refers to an out of print or unavailable edition of this title.

Bought this book for research on building a masonry heater. While it did provide plans and some guidance, the addition of the DVD (sold separately) really helped round out the words on the page. There's just something about seeing a person lay mortar or how they operated around a certain

area that was helpful to see. Also, there seems to be lots of great information about other aspects of green living that I haven't been able to dive into as of yet, but looks promising.

This is one of the few books that I've come across about alternative building methods that is truly catered towards how to build it yourself on a budget. He doesn't cover every possible green building technology, but he covers the ones he knows and has worked with in great detail, including step by step instructions, pictures, a recount of which methods and materials have worked well and which haven't, and ideas about what he would consider doing differently in the future. I've read it cover to cover and will certainly use it as a reference during the planning and building phases of our future home.

Living Homes has provided me with entertainment and information I was seeking. I am planning on building a new house and this book gave me a lot of information to think about. I like the energy efficiency that the book promotes and it gives a lot of ideas to think about when planning an energy efficient home. Stone masonry fireplaces for heat was a subject that I wanted to explore and the book has some information on it. It also describes many different types of heating systems involving heating water in a floor and solar heaters.

It Is Very Good Book Because The Auther Has Lived What He Has Wrote About. And The Book About Exactly As thE The Title Reads. Even If You Dont Build Your Whole House With These Methods, There is Good Ideas Here For Add Ons, Remodels ANd Outside Shops And Shelters. One Of Those Reads Were You Not Only Like The Content, But The Auther As Well.

Great book for the do it your self kind of person. Bought the book just for the directions on the masonry fireplace. Author has great YouTube videos showing him building the fireplace. If you want to live a life with a with a more sustainable footprint this book is full of knowledge

This book is really great! Written by a homeowner who built a smart and beautiful house. Includes layer by layer instructions on how to build their super efficient brick chimney! One of my favorite parts.

Everything by Thomas J. Elpel is incredible. Absolutely recommend.

We really are enjoying this book. Some great ideas on fireplaces! That is one of the main reasons we bought the book. I would recommend this book as a real fun and interesting read.

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