



Architect Wayne J. Bingham assists owners and builders in planning, designing, and constructing natural timber frame and strawbale homes. His work has been published in *Architectural Digest*, *Popular Science*, the *Salt Lake Tribune*, *Intermountain Contractor*, the *Deseret News*, *Nikkei Architecture*, and *The New Strawbale Home*. Wayne, along with Bill and Athena Steen, authored the book *Small Strawbale: Natural Homes, Projects & Designs*. Wayne and his wife, Colleen, have built their own timber frame and strawbale home in Teton Valley, Idaho, and coauthored *Strawbale Home Plans*.

Jerod Pfeffer combines a background in carpentry with a formal education in photography and journalism. A lifelong woodworker, he built everything from vinyl-sided apartments to custom log homes before getting hooked on traditional building. Jerod teaches others the craft of timber framing and hand-tool woodworking through demonstrations and workshops. His current focus is the development of nonelectric living systems to enable houses and people to elegantly respond to the climate and energy challenges of the coming decades. In his spare time, Jerod works on his own natural timber frame home and adds mulch to his forest garden in rural Idaho.

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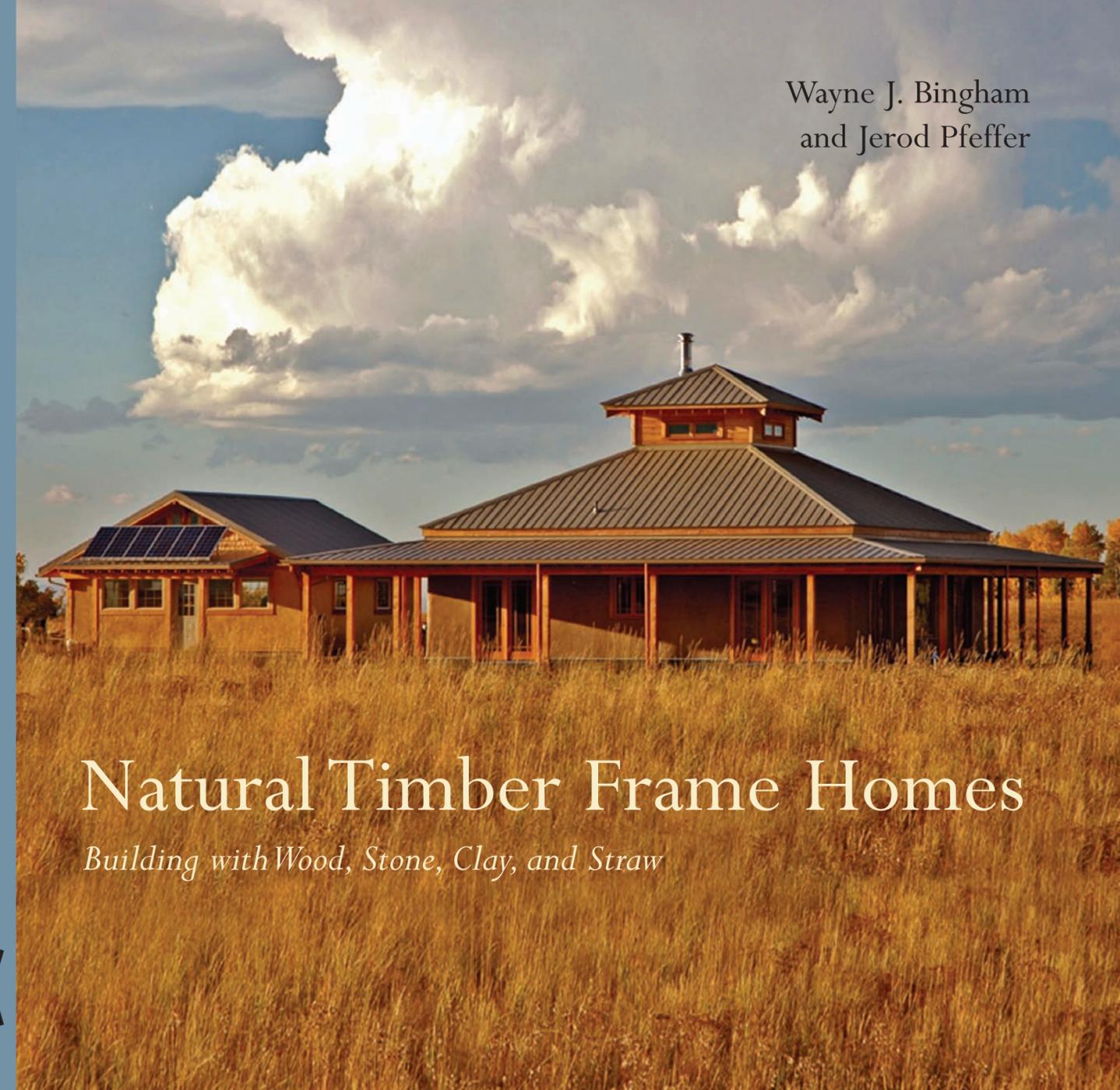
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TO ENRICH AND INSPIRE HUMANKIND



Natural Timber Frame Homes

BINGHAM & PFEFFER



Wayne J. Bingham
and Jerod Pfeffer

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Natural Timber Frame Homes

Building Homes with Wood, Stone, Clay, and Straw

Wayne J. Bingham and Jerod Pfeffer

In the rush to acquire bigger and better homes and to pay off increasingly larger mortgages, many of us have been left feeling dissatisfied. Why is this so? There is compelling evidence that what we really desire is not bigger homes, not more space, but better space.

Natural Timber Frame Homes lays the philosophical groundwork for how locally available materials result in more durable and beautiful homes. It asks us to consider the source of our wood, stone, clay, and straw and suggests that this awareness contributes to our perception of character in a finished house. Building naturally also gives us the feedback necessary to be conscientious environmental and economic stewards and allows us to play a meaningful role in the creation of our dwelling.

This book puts the theory of natural building into practice by providing the tools to evaluate your area for potential building materials. Photographs and drawings pull the theory together into workable timber frame construction details with floor plans that are adaptable to your specific needs, including your climate and landscape.

Beauty and character of traditional timber frame homes are a result of natural materials being crafted by the hands of the builder. By injecting ourselves into the process of home construction, we have the potential to live more connected to the natural world and influence the future of the Earth for the better.

Natural Timber Frame Homes

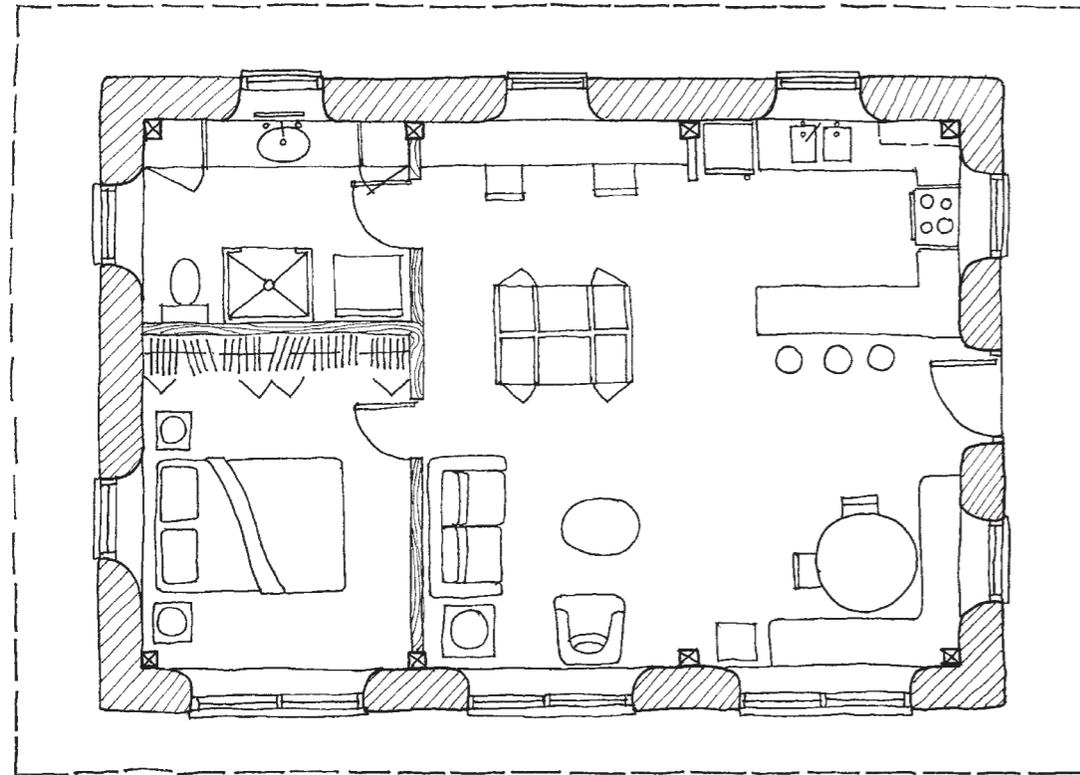
Building with Wood, Stone, Clay, and Straw



A built-in bench, antique furniture, circular window to the solarium, and a curved beam all enhance the dining area to the left. The post-and-beam structure provides visual separation from the living area to the right.

We have provided four natural timber frame floor plans. They are intended to demonstrate the variety possible in a 600-square-foot living space and encourage you to think in terms of efficiency. Our

sample timber frame is 20 x 30 feet with four bents. This layout creates three equal 10 x 20 bays or six 10 x 10 rooms that can be used as presented or adapted to your specific needs.



A solar bump-out enlarges the kitchen area and provides greenhouse space for growing plants indoors. The sleeping area is separated from the living area by a piece of furniture, expanding both spaces. The study can be converted into a second bedroom with the fold-down Murphy bed. The dining area takes advantage of the east morning sun and the south light of the day.



This timber frame features a strawbale perimeter wall with earthen plaster and an interior earthen-plastered adobe wall that serves as thermal-mass storage. Heat provided by the south-facing windows and the wood-burning stove is absorbed by the adobe wall. The posts and roof beams are left in their round shape, while the beam has been shaped into a rectangle for ease of connections.

Contents

Acknowledgments ix

Introduction xi

- Americans' Approach to Building
- Sources of Materials
- Local Materials and Renewable Energy

Challenging Basic Assumptions 1

- Life Without Oil
- Environmental and Human Health
- Diverse and Stable Economies
- Benefits of Building Your Own Home
- Beautiful, Natural, Hand-Built Homes

Evaluating the Problem

of Conventional Building 23

- Toxic Interior Environments
- Impact of Conventional Building
- Owner Involvement in a Building Project
- Differences between Conventional and Naturally Built Homes

Making the Case for

Natural Timber Frames 43

- Protection of Our Place
- Preservation of Personal Health
- Economic Interactions
- Construction of Your Own Home
- Size of Your Natural Timber Frame
- Hand Tools Vs. Power Tools
 - Price of Tools
- Beauty of Natural Structures



Getting to Know Your Place 77

- The Bioregion
- Indigenous Materials
 - Wood
 - Clay
 - Stone
 - Straw
 - Sun

Putting It All Together 109

- A Plan
- Purpose of Foundations
 - Conventional Foundations
 - Dry-Stacked Stone Foundation System
- Timber Frame Plus Natural Walls
 - Strawbale
 - Straw/Clay
 - Plaster
- Roofs
 - Thatch
 - Wood Shake
 - Stone
 - Clay/Tile
- Floor Plans

Resources 157

Index 159