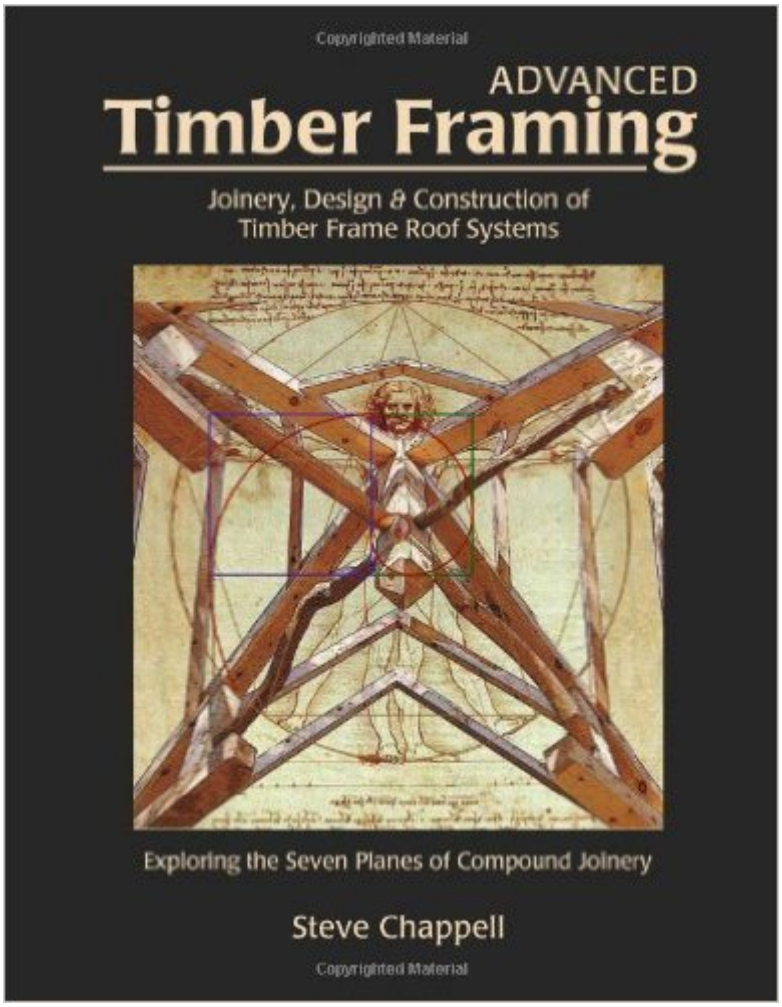
Advanced Timber Framing: Joinery, Design & Construction Of Timber Frame Roof Systems



Synopsis

Drawn from over 35 years of experience building and teaching advanced timber framing, this book combines both the nuance one might expect, and also a broad and colorful overview of the history and development of compound hip and valley timber frame roof systems and joinery. The work is divided into two parts, Book One: Design & History, and Book Two: Geometry & Joinery Systems. Book One begins with a chapter titled, The Elements of Design. In this section, Chappell draws parallels between the significance of proper design proportions, harmonics and the feel that resonates between these elements and the craftsman's touch. Through the proportions of the golden mean, phi and the Fibonacci sequence, metaphors to music and the jazz of timber framing, Chappell begins to develop a template that includes both sound and harmonics as fundamental aspects of the design medium. Chappell then goes on to explore the early development and history of timber framed roof systems from the 12th century Stave Churches, medieval Tithe Barns and Market Halls of Europe, to the ancient Pagodas of China and Japan. The focus is on discovering the systems and techniques used to build vernacular medieval timber framed roof systems. Book Two moves into the technical aspects of how to begin the process of designing complex, compound joinery by first developing the geometric model. Though the subject can be quite complex, the emphasis on developing a strong visual mental image at the outset is strengthened through the use of numerous photographs and illustrations. The book goes on to thoroughly discuss a very broad variety of design options and joinery details for virtually any situation one may ever confront in constructing complex, joined timber framed roof systems. Beautifully illustrated with over 870 color photographs and illustrations, Chappell presents a complete and comprehensive geometric and mathematical system in this work. One that can be used to design virtually any conceivable arrangement of complex structural members that one may ever face--all using mortise an tenon joinery.

Book Information

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Customer Reviews

In this book, Chappell secures and solidifies your interest in enhancing your timberframing projects to include more intricate and advanced frame elements by so tastefully showing the history and potential of compound joinery. He also shows you that it’s within your reach. The details are meticulously presented with care and attention to detail any practitioner would appreciate. To be fair, this is not a subject for the faint of geometric heart, and many will find it an enjoyable challenge to wrap their head around all three dimensions of the topic, but with this reference, it is well within range. Aside from his hands-on workshops (which I recommend) I cannot imagine a better way to present this subject, than the book he has put together. Read, be inspired, design and cut.....with confidence.

Another great Timber Framing book by Steve Chappell.Also recommend his other book "A Timber Framer’s Workshop".Applying these advanced techniques will make for a very memorable building.

Emphasis is on hip roofing techniques and advanced trigonometry. If your math skills are strong this is still a great book because it deals with the specifics of timber joinery. This method does rely on accurately sawn timbers at the outset, so if you build using hand hewn materials, you’ll want to learn to square them up within spec before attempting some of these joints. Truly is a master work, though, even if you never build a hip roof using timbers, it’s still worth every penny.

Advanced Timber Framing: Joinery, Design & Construction of Timber Frame Roof Systems How to frame a house; or, House and roof framing (a practical of laying out, framing and raising timber house on the balloon principle, system of roof framing, the whole making) Riverbend Timber Framing: Plan Book, Tenth edition (Planning the Timber Frame Home) Notches of All Kinds: A Book of Timber Joinery Frame by Frame Residential Structure & Framing: Practical Engineering and Advanced Framing Techniques for Builders Goss’s Roofing Ready Reckoner: Metric Cutting and Sizing Tables for Timber Roof Members Roof Framing Steel Square - Use Of The Scales, Roof

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