

From Carpentry Manuals to Engineering Textbooks (1792 – 1870)

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Abstract

Between 1792 and 1870, textbooks concerning structural timber underwent a dramatic change. Prior to 1792, knowledge of timber as a structural material stemmed from carpenters, some of whom produced manuals for instruction in their craft. Theory, of both the strength of materials and structural analysis was scarce, as precedence and rules-of-thumb dominated the design process. Gradually, through an increasing interest in science, changes in building practices and the growth of the engineering profession, the nature of texts evolved to resemble modern engineering textbooks.

This paper aims to demonstrate the evolution of textbooks concerning structural timber, identifying how they collectively document the development of rational design. Despite their advances, most of the nineteenth century saw outdated and incorrect material continually published by authors professing to be an authority on the subject. Authors who frequently demonstrated an ignorance of scientific developments, particularly of those in Europe. Ironically, just when the understanding of timber begins to improve it is relegated to a small section or chapter within a larger treatise on civil engineering. Although many textbooks continued to include sections on timber, there was no definitive text on timber engineering in the latter half of the nineteenth century. Early works stemming from carpentry manuals continued to be revised but were never radically altered to reflect the format and style of later engineering texts before the twentieth century.

Introduction

Before 1800, knowledge of structural timber stemmed from carpenters, some of whom produced manuals for instruction in their trade. As precedence and rules-of-thumb dominated British design processes, authors saw little merit of including the latest theories on the strength of materials or structural analysis, if they were even aware of such developments. Hence, British manuals dating between 1592 and c.1800 were typically devoid of theory.

Gradually, through changes in building practices and the growth of the engineering profession, the nature of texts evolved, which collectively document the emergence of ‘scientific methods’ in structural analysis. This paper presents a review of early treatise of timber published in Great Britain, documenting the transition from carpentry manuals to engineering textbooks, demonstrating the level of technical knowledge contained within.

Early Nineteenth-Century Works on Carpentry and Timber

Table 1 lists carpentry manuals and treatise on timber published in Great Britain between 1592 and 1870 [1]. Manuals published in the eighteenth century saw a dramatic improvement in the quality of illustrations and text, largely owing to developments in printing technology. Works produced c.1800 demonstrate a further improvement in quality but are also distinctly different, which can be largely attributed to a change in audience.

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