# THE INTERNAL WIRING OF BUILDINGS

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The Internal Wiring of Buildings by H. M Leaf

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# H. M LEAF

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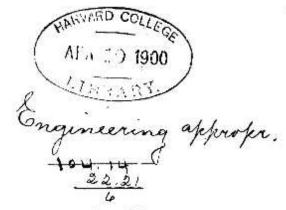
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By H. M. LEAF A.M.Inst.C.E : M.I.M.E

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## NOTE

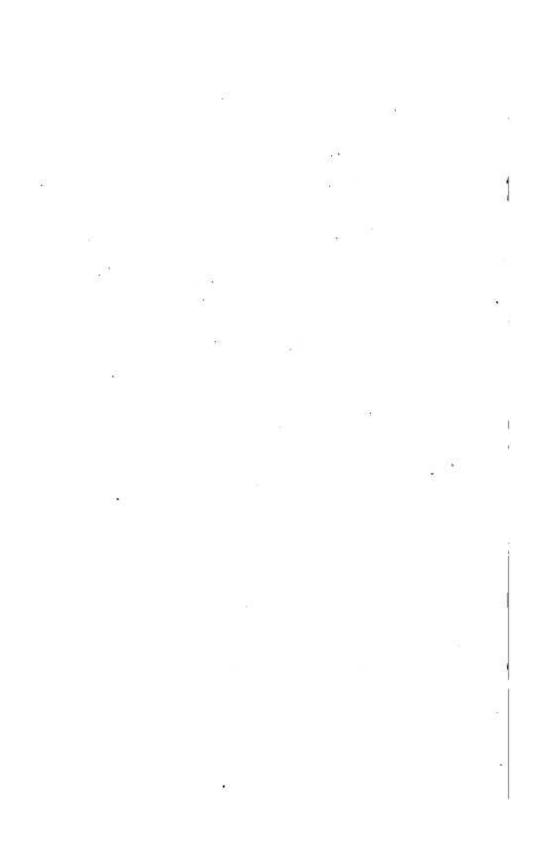
In the preparation of this book I have been greatly assisted by the following firms, who have kindly placed much useful information at my disposal:—

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H. M. LEAF.

November, 1898.



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## CHAPTER I

# Introduction

ELECTRIC energy is now so universally adopted for lighting, heating, transmission of power and other purposes, that insulated wires or cables (as they are often called) for conveying the current are now fixed in most buildings of any importance. The conditions under which these conductors have to perform their part of carrying the current vary within very wide limits, and it is the object of this treatise to describe the various means of fixing the wires to suit the different conditions under which the current is likely to be employed. The science of fitting up a suitable system of conductors, or "wiring," as it is termed, is not at the present time an exact science, but is rapidly becoming so. Among engineers there are several rival methods of wiring in use, and many discussions have taken place in technical journals, and at the meetings of engineering societies, on the subject of the relative advantages of concentric wiring, wood casing, and systems of iron and other tubing. Each system has merits for special purposes. Generally speaking no one system can be said to be universally better