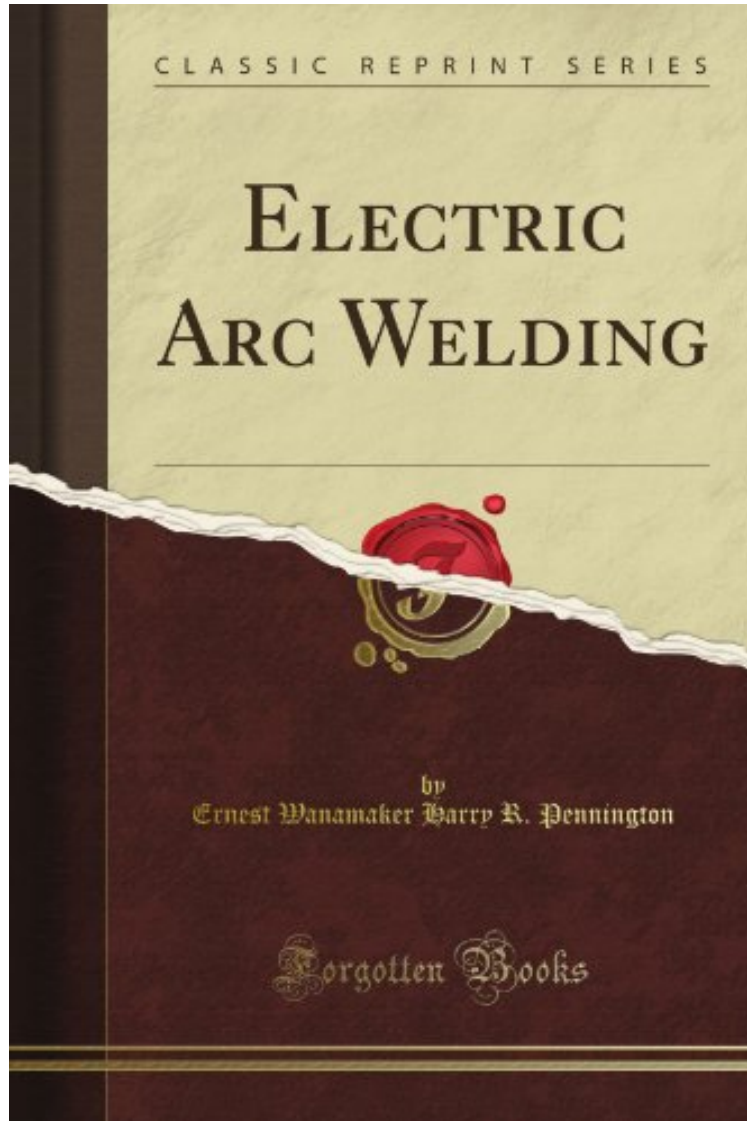


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The authors of this work have not attempted to cover the electric welding art in its broadest sense. The book is

confined almost exclusively to autogenous electric arc welding. The phenomena of the welding arc, and the metallurgy of welding, are in such a state of development that the authors information has been limited to the research which has come under their observation. Many phases of these subjects have been left, therefore, to specialists more adequately equipped both as to electric and metallurgical data as well as laboratory apparatus. The effort has been made to present information that is most in demand for practical purposes. The material is conveniently and logically arranged for ready reference. A large amount of practical information on many phases of the application of the art has been incorporated; for instance, descriptions of welding systems and their installation, phenomena of the metallic and carbon welding arc, training of operators, sequence of metal disposition for various types of joints and building up operations, electrode materials used, weldability of various metals, weld composition, thermal disturbances of parts affected by the welding process, physical properties of completed welds, efficiency of welding equipments expressed in pounds of metal used or deposited per kilowatt hours, welding cost, etc. It is desired to lay particular stress on the fact that a very small percentage of the possibilities and advantages of arc welding, from an industrial standpoint, are being made use of at the present time, and if this work will result in a broader application of the art, as well as further and more extensive research, the authors will feel well repaid for their humble efforts.

Tags: arc welding metal electrode weld iron steel welded electric carbon current heat process plate cent material cast added metallic electrodes

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