

Flux Cored Arc Welding Handbook

By **William H. Minnick**

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FCAW process is being increasingly used for a variety of applications. This process is suitable for both fabrication welding and for hard facing applications. Also this process offers variety with two versions- gas shielded and open arc. However only a limited number of books are available which exclusively deal with this process.

This book deals with this process only. The author has had experience as a welder, as a welding engineer and as an instructor. So from theory to practical-all aspects are covered in this book. The book aims to give a simple, but complete introduction to FCAW. It has been designed to impart both knowledge and skill in this process.

The initial chapters deal with the equipments, their characteristics etc. used for this process. A separate chapter deals with the shielding gases, gas mixtures and consumables. The joint types, welding procedures, techniques for various joints have been detailed along with safe practices. Defects and its prevention have been dealt elaborately with neat and appropriate sketches.

The chapters on welding of different materials like CS, LAS, CI and on applications like surfacing

bring out several useful details for practicing personnel. The book also deals with qualification tests for welders for various applications. Illustrative WPS, PQR have been included for ready reference and better understanding. A very interesting and useful feature of this book is the inclusion of general welding procedures for welding, overlay, buildup etc. which is pure practical data for that application. There is a reference section which gives important and useful reference data like preheat, inter pass temperature, post heat, etching procedures, glass shade numbers, fume limits, classification of consumables as per AWS apart from the usual conversion tables.

This book is easily readable with large font size and has plenty of photographs, illustrations, tables etc and is written in a simple language. At the end of each chapter review questions are available for every one to assess themselves. Though the author has written this book for producing a knowledgeable welder I would easily recommend that this is a 'must read and keep' book for all welding personnel connected with FCAW process.

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