



The Science and Practice of Welding: Volume 1 (Science & Practice of Welding)

A. C. Davies

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The Science and Practice of Welding, now in its tenth edition, is an introduction to the theory and practice of welding processes and their applications. Volume 1, Welding Science and Technology, explains the basic principles of physics, chemistry and metallurgy applied to welding. The section on electrical principles includes a simple description of the silicon diode and resistor, the production and use of square wave, and one-knob stepless control of welding current. There is a comprehensive section on non-destructive testing (NDT) and destructive testing of welds and Crack Tip Opening Displacement Testing. The text has been brought completely up-to-date and now includes a new chapter devoted to the Inverter power unit, and duplex stainless steel has been included in the list of materials described. Volume 2, The Practice of Welding, is a comprehensive survey of the welding methods in use today and includes up-to-date information on all types of welding methods and tools, including manual metal arc welding (MMA), gas shielded metal arc welding (MIG and MAG), tungsten electrode inert gas shielded welding processes (TIG) and plasma arc processes, resistance welding and flash butt welding, oxy-acetylene welding. The book also has a chapter on cutting processes. This new edition has been brought right up-to-date with a new chapter on the welding of plastics, and new sections on the welding of duplex stainless steel and air plasma cutting. As in previous editions, the appendices bring together a wealth of essential information, including British and American welding symbols, tables of conversion, information on proprietary welding gases and mixtures, testing practices, safety features and tables of brazing alloys and fluxes. Both volumes contain numerous questions of the type set craftsman and technician grade of the City and Guilds of London Institute examinations.

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