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Hybrid laser-arc welding (HLAW) is a combination of laser welding with arc welding that overcomes many of the shortfalls of both processes. This important book gives a comprehensive account of hybrid laser-arc welding technology and applications.

The first part of the book reviews the characteristics of the process, including the properties of joints produced by hybrid laser-arc welding and ways of assessing weld quality. It reviews arc and laser welding including both advantages and disadvantages of the hybrid laser-arc approach. Part 2 discusses applications of the process to such metals as magnesium alloys, aluminum, and steel as well as the use of hybrid laser-arc welding in such sectors as ship building and the automotive industry.

With its distinguished editor and international team of contributors, Hybrid Laser-arc Welding, is a valuable source of reference for all those using this important welding technology.