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Joining of advanced materials is a unique treatment of joining of both conventional and advanced metals and alloys, intermetallics, ceramics, glasses, polymers, and composites with polymeric, metallic, ceramic, intermetallic and carbon matrices in similar and dissimilar combinations. Suitable for undergraduate and graduate students in engineering in addition to practicing engineers, this book treats in detail mechanical joining with conventional and advanced fasteners or integral design features, adhesive bonding, fusion and non-fusion welding, brazing, soldering, thermal spraying, and synergistic combinations of weld-bonding, weld-brazing, rivet-bonding. In addition, the book addresses materials issues, joint design, production processing, quality assurance, process economics, and joint performance in service.



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