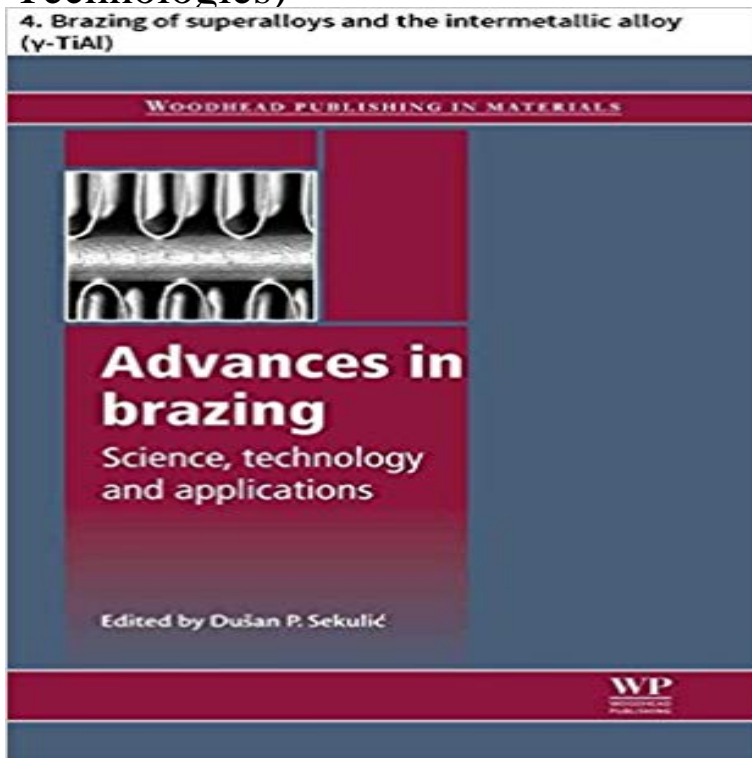


Advances in brazing: 4. Brazing of superalloys and the intermetallic alloy (γ -TiAl) (Woodhead Publishing Series in Welding and Other Joining Technologies)



This chapter investigates the problem of brazing heat-resistant materials high nickel-base and γ -TiAl-base intermetallic alloys. Diffusion brazing with filler metals of the NiCrB and NiCrBSi systems is inefficient for nickel alloys, while composite filler metals based on these systems yield satisfactory results. When used as an alternative to boron- and silicon-containing filler metals, alloys of the NiCrZr systems do not form hard and brittle phases at the interface in the joints. Filler metals based on the TiZr system are best suited for joining γ -TiAl-base intermetallic alloys. TiZrFe and TiZrMn alloys, which show promise as brazing filler metals are selected, and structures and mechanical properties of the brazed joints are presented.

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