

1. Record Nr.	UNINA9910782830603321
Titolo	Handbook of plastics joining [[electronic resource]] : a practical guide / / edited by Michael J. Troughton
Pubbl/distr/stampa	Norwich, NY, : William Andrew Cambridge, UK, : TWI/The Welding Institute, c2008
ISBN	1-282-55256-2 9786612552564 0-8155-1976-1 0-08-094761-1
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (615 p.)
Collana	PDL handbook series
Altri autori (Persone)	TroughtonMichael John
Disciplina	668.4
Soggetti	Plastics - Welding
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Handbook of Plastics Joining: A Practical Guide; Copyright Page; Contents; Introduction; Part 1: JOINING PROCESSES; Chapter 1. Heated Tool Welding; 1.1 Process Description; 1.2 Advantages and Disadvantages; 1.3 Applications; 1.4 Materials; 1.5 Weld Microstructure; 1.6 Equipment; 1.7 Joint Design; 1.8 Welding Parameters; 1.9 Variants of Heated Tool Welding; References; Chapter 2. Ultrasonic Welding; 2.1 Process Description; 2.2 Advantages and Disadvantages; 2.3 Applications; 2.4 Materials; 2.5 Equipment; 2.6 Joint Design; 2.7 Welding Parameters; 2.8 Variants of Ultrasonic Welding ReferencesChapter 3. Vibration Welding; 3.1 Process Description; 3.2 Advantages and Disadvantages; 3.3 Applications; 3.4 Materials; 3.5 Equipment; 3.6 Joint Design; 3.7 Welding Parameters; 3.8 Process Variants; References; Chapter 4. Spin Welding; 4.1 Process Description; 4.2 Advantages and Disadvantages; 4.3 Applications; 4.4 Materials; 4.5 Equipment; 4.6 Joint Design; 4.7 Welding Parameters; References; Chapter 5. Radio Frequency Welding; 5.1 Process Description; 5.2 Advantages and Disadvantages; 5.3 Applications; 5.4 Materials; 5.5 Equipment; 5.6 Joint Design; 5.7 Welding Parameters ReferencesChapter 6. Hot Gas Welding; 6.1 Process Description; 6.2

Advantages and Disadvantages; 6.3 Applications; 6.4 Materials; 6.5 Equipment; 6.6 Joint Design; 6.7 Welding Parameters; 6.8 Variants of Hot Gas Welding; References; Chapter 7. Extrusion Welding; 7.1 Process Description; 7.2 Advantages and Disadvantages; 7.3 Applications; 7.4 Materials; 7.5 Equipment; 7.6 Joint Design; 7.7 Welding Parameters; 7.8 Variants of Extrusion Welding; Chapter 8. Laser Welding; 8.1 Process Description; 8.2 Advantages and Disadvantages; 8.3 Applications; 8.4 Materials; 8.5 Equipment; 8.6 Joint Design
8.7 Welding Parameters8.8 Troubleshooting; References; Chapter 9. Infrared Welding; 9.1 Process Description; 9.2 Advantages and Disadvantages; 9.3 Applications; 9.4 Materials; 9.5 Equipment; 9.6 Joint Design; 9.7 Welding Parameters; References; Chapter 10. Resistive Implant Welding; 10.1 Process Description; 10.2 Advantages and Disadvantages; 10.3 Applications; 10.4 Materials; 10.5 Equipment; 10.6 Welding Parameters; 10.7 Electrofusion Welding; References; Chapter 11. Induction Welding; 11.1 Process Description; 11.2 Advantages and Disadvantages; 11.3 Applications; 11.4 Materials
11.5 Equipment11.6 Joint Design; 11.7 Welding Parameters; References; Chapter 12. Heat Sealing; 12.1 Process Description; 12.2 Advantages and Disadvantages; 12.3 Applications; 12.4 Materials; 12.5 Equipment; 12.6 Welding Parameters; References; Chapter 13. Flash-Free Welding; 13.1 Process Description; 13.2 Advantages and Disadvantages; 13.3 Applications; 13.4 Materials; 13.5 Equipment; 13.6 Welding Parameters; References; Chapter 14. Friction Stir Welding; 14.1 Process Description; 14.2 Advantages and Disadvantages; 14.3 Applications; 14.4 Materials; 14.5 Equipment; 14.6 Welding Parameters
References

Sommario/riassunto

The new edition of this bestselling reference provides fully updated and detailed descriptions of plastics joining processes, plus an extensive compilation of data on joining specific materials. The volume is divided into two main parts: processes and materials. The processing section has 18 chapters, each explaining a different joining technique. The materials section has joining information for 25 generic polymer families. Both sections contain data organized according to the joining methods used for that material.* A significant and extensive update from experts at The Welding I
