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6.3 Binders for metal injection moulding
6.4 Mixing and feedstock analysis; 6.5 Injection moulding; 6.6 Binder removal (debinding); 6.7 Sintering; 6.8 Post-sintering; 6.9 Applications and design; 6.10 Conclusion; 6.11 References; Part II Materials and properties; 7Advanced powder metallurgy steel alloys; 7.1 Introduction; 7.2 Composition of advanced pressed and sintered steel components; 7.3 Manufacturing routes for sintered steel components; 7.4 Properties, microstructures and typical products; 7.5 Powder injection moulded steel components; 7.6 Powder metallurgy tool steels
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7.8 Acknowledgements; 7.9 Further reading; 7.10 References; 8Powder metallurgy of titanium alloys; 8.1 Introduction; 8.2 Powders; 8.3 Near net shapes; 8.4 Additive layer manufacturing and powder injection molding; 8.5 Spraying and research-based processes; 8.6 Future trends; 8.7 Acknowledgements; 8.8 References; 9Metal-based composite powders; 9.1 Introduction; 9.2 Metal-based composite powder production; 9.3 Copper- and aluminium-based composite powder systems; 9.4 Other metal-based composite powders; 9.5 Applications; 9.6 Future trends; 9.7 References
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Sommario/riassunto

Powder metallurgy (PM) is a popular metal forming technology used to produce dense and precision components. Different powder and component forming routes can be used to create an end product with specific properties for a particular application or industry. Advances in powder metallurgy explores a range of materials and techniques used for powder metallurgy and the use of this technology across a variety of application areas. Part one discusses the forming and shaping of metal powders and includes chapters on atomisation techniques, electrolysis and plasma synthesis of metallic nanopowders.

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