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Autore	Reich Jerome R.
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Sommario/riassunto	This volume profiles a dozen British men and women, who, for varying reasons, opposed the policy of the British government towards its 13 colonies before and during the American Revolution. Their actions helped prepare the way for the recognition of the United States as an independent nation.

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5.5 Observation of defects5.6 Specialized bombardment techniques; 5.7 Thermal analysis; Chapter 6. The physical properties of materials; 6.1 Introduction; 6.2 Density; 6.3 Thermal properties; 6.4 Diffusion; 6.5 Anelasticity and internal friction; 6.6 Ordering in alloys; 6.7 Electrical properties; 6.8 Magnetic properties; 6.9 Dielectric materials; 6.10 Optical properties; Chapter 7. Mechanical behaviour of materials; 7.1 Mechanical testing procedures; 7.2 Elastic deformation; 7.3 Plastic deformation; 7.4 Dislocation behaviour during plastic deformation; 7.5 Mechanical twinning
7.6 Strengthening and hardening mechanisms7.7 Macroscopic plasticity; 7.8 Annealing; 7.9 Metallic creep; 7.10 Deformation mechanism maps; 7.11 Metallic fatigue; Chapter 8. Strengthening and toughening; 8.1 Introduction; 8.2 Strengthening of non-ferrous alloys by heat-treatment; 8.3 Strengthening of steels by; 8.4 Fracture and toughness; Chapter 9. Modern alloy developments; 9.1 Introduction; 9.2 Commercial steels; 9.3 Cast irons; 9.4 Superalloys; 9.5 Titanium alloys; 9.6 Structural intermetallic compounds; 9.7 Aluminium alloys; Chapter 10. Ceramics and glasses; 10.1 Classification of ceramics
10.2 General properties of ceramics10.3 Production of ceramic powders; 10.4 Selected engineering ceramics; 10.5 Aspects of glass technology; 10.6 The time-dependency of strength in ceramics and glasses; Chapter 11. Plastics and composites; 11.1 Utilization of polymeric materials; 11.2 Behaviour of plastics during processing; 11.3 Fibre-reinforced composite materials; Chapter 12. Corrosion and surface engineering; 12.1 The engineering importance of surfaces; 12.2 Metallic corrosion; 12.3 Surface engineering; Chapter 13. Biomaterials; 13.1 Introduction; 13.2 Requirements for biomaterials
13.3 Dental materials

Sommario/riassunto

For many years, various editions of Smallman's Modern Physical Metallurgy have served throughout the world as a standard undergraduate textbook on metals and alloys. In 1995, it was rewritten and enlarged to encompass the related subject of materials science and engineering and appeared under the title Metals & Materials: Science, Processes, Applications offering a comprehensive amount of a much wider range of engineering materials. Coverage ranged from pure elements to superalloys, from glasses to engineering ceramics, and from everyday plastics to in situ composites, Amongst other favourable