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Nota di contenuto	Lead-free Electronics; Contents; Preface; Editors; Contributors; Acknowledgments; Chapter 1 Lead-free Electronics: Overview; 1.1 What Is Lead-free?; 1.2 Why Lead-free?; 1.2.1 Legislation; 1.2.2 Market differentiation; 1.2.3 Environmental stewardship; 1.3 Who Are the First Consumers for Lead-free Products?; 1.3.1 Affluent societies; 1.3.2 Social/cultural motivation; 1.3.3 Consumer response to lead-free electronics; 1.4 Are There Any Technical Barriers to Lead-free Electronics?; 1.4.1 Technical issues; 1.4.2 Reliability concerns; 1.5 How Will We Migrate to Lead-free Electronics? 1.5.1 Potential mismatches: obsolescence and compatibility1.5.2 Supply chain issues; 1.6 When Will Lead-free Products Be Widely Available?; 1.6.1 Recycling and material recovery systems; 1.7 summary; 1.8 References; Chapter 2 Lead-free Legislations, Exemptions, and Compliance; 2.1 Overview of the Lead-free Legislation; 2.1.1 WEEE Directive; 2.1.2 RoHS Directive; 2.1.3 Electronic

Waste Recycling Act in California; 2.1.4 Hazardous material ban in China; 2.2 Exemptions; 2.2.1 Lead in glass of cathode ray tubes, electronic components and fluorescent tubes  
2.2.2 Lead in high melting temperature type solders  
2.2.3 Lead in solders for servers, storage and storage array systems; 2.2.4 Lead in solders for network infrastructure equipment; 2.2.5 Lead in electronic ceramic parts; 2.3 Impact of Exemptions; 2.3.1 Military electronics; 2.3.2 Automotive electronics; 2.3.3 Avionics; 2.3.4 Oil and gas well electronics; 2.3.5 Medical electronics; 2.3.6 Industrial. network infrastructure, server and storage electronics; 2.3.7 Risks due to exemptions; 2.4 Compliance with the Legislation; 2.5 Recommendations and Conclusions; 2.6 References  
Chapter 3 Lead-free Alloys: Overview  
3.1 Lead-Free Alloys Requirements; 3.2 Binary Alloys; 3.3 Ternary and Quaternary Alloys; 3.3.1 Tin-silver-copper alloys; 3.3.2 Tin-silver-bismuth alloys; 3.3.3 Tin-silver-copper-bismuth alloy; 3.3.4 Tin-silver-copper-antimony alloy; 3.3.5 Tin-zinc-bismuth alloy; 3.3.6 Worldwide suppliers for lead-free alloys; 3.4 Summary; 3.5 References; Chapter 4 Lead-free Manufacturing; 4.1 Introduction; 4.2 Alloy Selection; 4.2.1 Sn58Bi; 4.2.2 SnZnBi; 4.2.3 SnAgBi; 4.2.4 Sn3.5Ag; 4.2.5 Sn0.7Cu; 4.2.6 SnAgCu; 4.2.7 Summary of alloy selection for reflow soldering  
4.3 Alloy Selection for Wave Soldering  
4.4 Characteristics of Selected Tin-Silver-Copper Alloy; 4.4.1 Various compositions; 4.4.2 Reflow characteristics; 4.5 Considerations and Tests for Lead-free Components; 4.5.1 Suggested test requirements for lead-free components; 4.6 Assuring Material Readiness for Lead-free Assembly; 4.7 Tracing Lead-free Systems; 4.7.1 Process change notices (PCN); 4.7.2 Component part numbers (CPN); 4.8 Solder Paste Handling; 4.9 Surface-Mount Assembly Process; 4.9.1 Screen printing; 4.9.2 Pick and place; 4.9.3 Reflow; 4.10 Wave Solder Process  
4.10.1 Materials considerations for wave soldering

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## Sommario/riassunto

Lead-free Electronics provides guidance on the design and use of lead-free electronics as well as technical and legislative perspectives. All the complex challenges confronting the electronics industry are skillfully addressed:

- \* Complying with state legislation
- \* Implementing the transition to lead-free electronics, including anticipating associated costs and potential supply chain issues
- \* Understanding intellectual property issues in lead-free alloys and their applications, including licensing and infringement
- \* Implementing cost effective manufacturing and testing
- \* Reducin

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