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Autore	Bath Jasbir
Titolo	Lead-free solder process development // Jasbir Bath, Greg Henshall, Carol Handwerker
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , c2010 [Piscataway, New Jersey] : , : IEEE Xplore, , [2011]
ISBN	1-283-02524-8 9786613025241 1-118-10274-6 0-470-90119-5 0-470-90118-7
Descrizione fisica	1 online resource (286 p.)
Altri autori (Persone)	HandwerkerCarol A HenshallGregory Arthur
Disciplina	621.38104 621.9/77
Soggetti	Lead-free electronics manufacturing processes Solder and soldering
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 Matter -- Regulatory and Voluntary Drivers for Environmental Improvement: Hazardous Substances, Life-Cycle Design, and End of Life / John Hawley -- Lead-Free Surface Mount Technology / Jasbir Bath, Jennifer Nguyen, Sundar Sethuraman -- Lead-Free Wave Soldering / Denis Barbini, Jasbir Bath -- Lead-Free Rework / Alan Donaldson -- Lead-Free Alloys for BGA/CSP Components / Gregory Henshall -- Growth Mechanisms and Mitigation Strategies of Tin Whisker Growth / Peng Su -- Testability of Lead-Free Printed Circuit Assemblies / Rosa D Reinosa, Aileen M Allen -- Board-Level Solder Joint Reliability of High-Performance Computers Under Mechanical Loading / Keith Newman -- Lead-Free Reliability in Aerospace/Military Environments / Thomas A Woodrow, Jasbir Bath -- Lead-Free Reliability in Automotive Environments / Richard D Parker -- Index.
Sommario/riassunto	A fully up-to-date approach to implementing lead-free

solderingEnvironmental and health concerns have led to a growing movement to eliminate lead from electronics, specifically from electronics soldering. Lead-based solder has been used for many years with a good history of use, so the change to lead-free solder alternatives requires companies to re-examine, develop, and re-test manufacturing processes as they make the transition. Lead-Free Solder Process Development covers general lead-free soldering topics written by those specializing in these areas. Timely and up to date, this reference covers key topics including legislation, SMT, wave, rework, alloys, test, and reliability. It provides updates in areas where research is ongoing and addresses various topics that are relevant to lead-free soldering, including: Government and legislative activities. Lead-free SMT assembly. Lead-free wave soldering. Lead-free rework. Lead-free alloys for BGA/CSP components. Lead-free mechanical reliability. Tin whiskers. Lead-free reliability in aerospace and military environments. Lead-free reliability in automotive environments. Testability of lead-free printed circuit assembliesEmphasizing practical knowledge of lead-free soldering rather than theory, Lead-Free Solder Process Development is written by experts who are or who have been heavily involved in lead-free implementation at the product level. Being an up-to-date book on this changing field, it is an essential read for engineers in the industry who are or will be migrating to lead-free soldering.

2. Record Nr.	UNINA9910772089703321
Autore	Tanaka Koji <1952->
Titolo	Curriculum, instruction and assessment in Japan : beyond lesson study // Koji Tanaka, Kanae Nishioka and Terumasa Ishii
Pubbl/distr/stampa	Taylor & Francis, 2017 London : , : Routledge, , 2017
ISBN	9781317484936 1317484932 9781315709116 1315709112 9781317484929 1317484924
Edizione	[1st ed.]
Descrizione fisica	1 online resource (154)
Collana	Routledge series on schools and schooling in Asia
Altri autori (Persone)	IshiiTerumasa NishiokaKanae
Disciplina	375.000952
Soggetti	Education
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	pt. I. Curriculum -- part II. Instruction -- part III. Assessment.
Sommario/riassunto	This book provides a comprehensive overview of the history and current status of policy, research and practices of curriculum, classroom instruction and assessment in Japan. It outlines the mechanism of curriculum organization and the history of the National Courses of Study, and assesses the theories of academic ability model. It also discusses in detail the history of "Lesson Study" – a characteristic teaching practice in Japan which utilizes groups, and reviews the history of educational assessment in Japan. Case studies on the practice of portfolio assessment in the Period for Integrated Study, as well as the practice of performance tasks in subject-based education are illustrated to show various examples of teaching practices. Curriculum, Instruction and Assessment in Japan explores: <ul style="list-style-type: none"> • Child-centered Curriculum and Discipline-Centered Curriculum • Theories based on Models of Academic Achievement and Competency

- Various Methods for Organizing Creative Whole-Class Teaching
- Performance Assessment in Subject Teaching

A good guideline for those who would like to use the idea of "Lesson Study" in order to improve their own teaching and management practices and a reference to all working in educational improvement, this book will be of interest to educators and policymakers concerned with curriculum practices or those with an interest in the Japanese education system.
