

1. Record Nr.	UNINA9910788103703321
Autore	Wong E- H.
Titolo	Robust design of microelectronics assemblies against mechanical shock, temperature and moisture // E-H Wong, Y.-W Mai
Pubbl/distr/stampa	Boston, MA : , : Elsevier, , [2015] ©2015
Descrizione fisica	1 online resource (477 p.)
Collana	Woodhead Publishing series in electronic and optical materials, , 2050-1501 ; ; number 81
Disciplina	621.381046
Soggetti	Microelectronics - Design Industrial design Robust control
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; Related titles; Robust Design of Microelectronics Assemblies Against Mechanical Shock, Temperature and MoistureWoodhead Publishing Series i ...; Copyright; Contents; Woodhead Publishing Series in Electronic and Optical Materials; Foreword; Preface; 1 - Introduction; 1.1 Introduction to microelectronic packaging; 1.2 Introduction to robust design; 1.3 Organisation of the book; References; Part 1 - Advances in robust design against temperature-induced failures; 2 - Robust design of microelectronic assemblies against mismatched thermal expansion; 2.1 Introduction; 2.2 Fundamentals 2.3 Comprehensive analysis of a bilayer structure2.4 Microelectronic assembly as a sandwich structure with a continuous bonding layer; 2.5 PCB assembly as a sandwich structure with a layer of solder joints; References; 2. Appendix: prior published works in thermoelasticity; 2. Nomenclature; 2. Mathematical symbols; 3 - Advances in creep-fatigue modelling of solder joints; 3.1 Introduction; 3.2 Life-prediction models for creep-fatigue; 3.3 The unified equation; 3.4 Self-validations and benchmarking; 3.5 Applications; References Part 2 - Advances in robust design against moisture-induced failures4 - Moisture properties and their characterisations; 4.1 Introduction; 4.2

Thermodynamics of water; 4.3 Sorption and its characterisation; 4.4 Diffusivity and its characterisation; 4.5 Hygroscopic swelling and its characterisation; References; 5 - Advances in diffusion and vapour pressure modelling; 5.1 The discontinuity of concentration; 5.2 The fractional saturation; 5.3 Diffusion under time-varying temperature and pressure; 5.4 Advances in vapour pressure modelling; References; Part 3 - Robust design against drop impact
6 - The physics of failure of portable electronic devices in drop impact6.1 Product drop testing; 6.2 The physics of failure; References; 7 - Subsystem testing of solder joints against drop impact; 7.1 Board-level testing; 7.2 Component-level testing; References; 8 - Fatigue resistance of solder joints: strain-life representation; 8.1 Introduction; 8.2 Design of test specimens; 8.3 Fatigue resistance equations: materials; 8.4 Fatigue resistance equations: frequency; 8.5 Fatigue resistance equations: environment; References; 9 - Fatigue crack growth in solder joints at high strain rate
9.1 Introduction9.2 Establishment of continuous crack growth tracking capability; 9.3 Crack propagation characteristics: board-level drop shock test; 9.4 Crack propagation characteristics: high-speed cyclic bending test; 9.5 Three-dimensional fracture mechanics modelling of the crack front; 9.6 Crack propagation in the solder joints of a mobile phone experiencing drop impact; References; 10 - Dynamic deformation of a printed circuit board in drop-shock; 10.1 Introduction; 10.2 Vibration of a test board in the JESD22-B111 drop-shock test
10.3 Analytical solutions for a spring-mass system subjected to half-sine shock

Sommario/riassunto

Robust Design of Microelectronics Assemblies Against Mechanical Shock, Temperature and Moisture discusses how the reliability of packaging components is a prime concern to electronics manufacturers. The text presents a thorough review of this important field of research, providing users with a practical guide that discusses theoretical aspects, experimental results, and modeling techniques. The authors use their extensive experience to produce detailed chapters covering temperature, moisture, and mechanical shock induced failure, adhesive interconnects, and viscoelasticity. Useful progr

2. Record Nr.	UNINA9910821217603321
Titolo	Experimenting with social norms : fairness and punishment in cross-cultural perspective / / Jean Ensminger and Joseph Henrich, editors
Pubbl/distr/stampa	New York, New York : , : Russell Sage Foundation, , 2014 ©2014
ISBN	1-61044-840-5
Descrizione fisica	1 online resource (492 p.)
Disciplina	303.3/7
Soggetti	Game theory - Social aspects Social norms Experimental economics Economics - Sociological aspects
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 at the end of each chapters and index.

3. Record Nr.

UNINA9910963330903321

Titolo

From potential to reality : what will it take to harness a demographic dividend in Africa? // edited by: David Canning, Sangeeta Raja, Abdo S. Yazbeck

Pubbl/distr/stampa

Washington, D.C. : , : The World Bank, , 2015

ISBN

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Edizione

[1st ed.]

Descrizione fisica

1 online resource (pages cm)

Disciplina

304.6/20967

Soggetti

Demographic transition - Africa, Sub-Saharan
Demographic transition - Economic aspects - Africa, Sub-Saharan
Age distribution (Demography) - Africa, Sub-Saharan
Africa, Sub-Saharan Population

Lingua di pubblicazione

Inglese

Formato

Materiale a stampa

Livello bibliografico

Monografia

Note generali

"October 23, 2014."

Nota di bibliografia

Includes bibliographical references and index.

Nota di contenuto

Overview -- The state of demographics in Sub-Saharan Africa -- Speeding the demographic transition -- Selected social and economic effects of the demographic dividend -- Afterword.

Sommario/riassunto

This book lays out a range of policy actions that are needed at the various phases of the demographic transition and uses global and regional experiences to provide evidence on what has worked and what has not. Countries have a menu of options available to speed up the transition, improve investment in the resulting youth cohort, expand labor markets, and encourage savings. This book not only looks at lessons from East Asia, Latin America, and the Middle East, but also at unique demographic characteristics in Sub-Saharan Africa. Harnessing the demographic dividend means, first and foremost, empowering women and girls by improving their health, enhancing their human capital through increased investment in education and skills, and providing them with greater market, social, and decision-making power. The full potential of the demographic dividend can be realized in Sub-Saharan Africa with proactive policies that can help to make it happen.

4. Record Nr.	UNINA9910956414703321
Autore	Morris Gouverneur <1752-1816.>
Titolo	To secure the blessings of liberty : selected writings of Gouverneur Morris // edited and with an introduction by J. Jackson Barlow
Pubbl/distr/stampa	Indianapolis, : Liberty Fund, 2012
ISBN	0-86597-834-4 1-4619-3146-0 1-61487-904-4
Descrizione fisica	1 online resource (705 p.)
Altri autori (Persone)	BarlowJ. Jackson
Disciplina	973.2
Soggetti	United States History Colonial period, ca. 1600-1775 Sources United States History Revolution, 1775-1783 Sources United States History 1783-1815 Sources United States Politics and government 1775-1783 Sources United States Politics and government 1783-1865 Sources
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 (p. xxi-xxii) and index.
Nota di contenuto	""Gouverneur Morris, To Secure the Blessings of Liberty ""; ""Front Matter ""; ""Title Page ""; ""Copyright Details ""; ""Table of Contents, p. v ""; ""Introduction, p. ix ""; ""Acknowledgments, p. xvii ""; ""A Note on the Texts, p. xix ""; ""Selected Bibliography, p. xxi ""; ""To Secure the Blessing of Liberty ""; ""1. To the Inhabitants of the Colony of New-York (1769), p. 1 ""; ""2. Political Enquiries (1776), p. 5 ""; ""3. Oration on the Necessity for Declaring Independence from Britain (1776), p. 13 ""; ""4. Public Letters to the Carlisle Commissioners (1778), p. 25 "" ""5. Proposal to Congress Concerning the Management of the Government (1778), p. 53 """"6. Report of the Committee on the Treasury (1778), p. 67 ""; ""7. Some Thoughts on the Finances of America (1778), p. 73 ""; ""8. To the Quakers, Bethlemites, Moderate Men, Refugees, and Other the Tories Whatsoever, and Wheresoever, Dispersed (1779), p. 87 ""; ""9. To Governor Johnstone (1779), p. 95 ""; ""10. ""An American"" Letters on Public Finance for the Pennsylvania Packet (1780), p. 103 ""; ""11. Righteousness Establisheth a Nation (1780), p. 165 ""

""12. Observations on Finances: Foreign Trade and Loans (1781?), p. 171 """"13. Ideas of an American on the Commerce Between the United States and French Islands As It May Respect Both France and America (1783), p. 177 ""; ""14. Address to the Assembly of Pennsylvania on the Abolition of the Bank of North America (1785), p. 183 ""; ""15. The Constitution of the United States (1787), p. 207 ""; ""16. American Finances (1789), p. 223 ""; ""17. Observations on Government, Applicable to the Political State of France (1789), p. 231 ""
""18. Memoir Written for the King of France, Respecting the New Constitution (1791), p. 239 """"19. Observations on the New Constitution of France (1791), p. 251 ""; ""20. Notes on the Form of a Constitution for France (1791?), p. 269 ""; ""21. Remarks upon the Principles and Views of the London Corresponding Society (1795), p. 285 ""; ""22. Oration on the Death of George Washington (1799), p. 293 ""; ""23. Speeches in the Senate on the Repeal of the Judiciary Act of 1801, p. 303 ""; ""24. Letters to the New York Evening Post on the Louisiana Purchase (1803), p. 333 ""
""25. Funeral Oration for Alexander Hamilton (1804), p. 353 """"26. Oration on the Love of Wealth (1805), p. 357 ""; ""27. Oration on Patriotism (1805), p. 361 ""; ""28. On Prejudice (ca. 1805), p. 365 ""; ""30. Notes on the United States of America (1806), p. 405 ""; ""31. The British Treaty (1807/1808), p. 423 ""; ""32. On the Beaumarchais Claim (1807/1808), p. 473 ""; ""33. To the People of the United States (1810), p. 485 ""; ""34. Election Address (1810), p. 495 ""; ""35. Letters to the Evening Post on Albert Gallatin's Plan for Enforcing the Non-Importation Act (1811), p. 505 ""
""36. Erie Canal Commission Report (1812), p. 519 ""

Sommario/riassunto

Liberty Fund is pleased to present this single-volume collection of Gouverneur Morris's writings. This edition will be a welcome addition to scholars of American and French history as the volume contains many writings that have never before been published. Morris served as Deputy Superintendent of Finance during the American Revolution, in which capacity he devised the system of decimal coinage. He was a prominent member of the Constitutional Convention, where he spoke more frequently than any other member and, as a member of the Committee on Style and Arrangement, put the Constitution in its present form and authored its Preamble. As a private citizen in Paris, and later Minister to France (1789-94), Morris was a firsthand witness of the French Revolution. On his return to the U.S., he served as a U.S. Senator, was a prime mover in the creation of the Erie Canal, and took a leading role as a critic of the Jefferson and Madison administrations. Providing his unique perspective, this is a wonderful and accessible single source that illuminates the political and economic thought of Gouverneur Morris. Gouverneur Morris (1752-1816) was a prominent member of the Constitutional Convention, a signer of the U.S. Constitution and author of its Preamble, and U.S. Minister to France during the French Revolution. J. Jackson Barlow is the Charles A. Dana Professor of Politics and the Director, Program in Philosophy, Politics, and Economics at Juniata College, in Huntington, Pennsylvania. Please note: This title is available as an ebook for purchase on Amazon, Barnes and Noble, and iTunes.
