1. Record Nr. UNINA9910715131503321

Autore	Swickard Andrew E.
Titolo	Metal-truss wing spars / / by Andrew E. Swickard
Pubbl/distr/stampa	Washington, [D.C.] : , : National Advisory Committee for Aeronautics, , 1931
Descrizione fisica	1 online resource (31 pages, 4 unnumbered pages) : illustrations
Collana	Technical note / National Advisory Committee for Aeronautics ; ; No. 383
Soggetti	Airplanes - Wings Trusses Loads (Mechanics) Mathematical analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"July, 1931." No Federal Depository Library Program (FDLP) item number.
Nota di bibliografia	Includes bibliographical references.

2. Record Nr. UNINA9910299942703321

Autore	Pagani Santiago
Titolo	Advanced Techniques for Power, Energy, and Thermal Management for Clustered Manycores / / by Santiago Pagani, Jian-Jia Chen, Muhammad Shafique, Jörg Henkel
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-77479-4
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (295 pages) : illustrations
Disciplina	004.35
Soggetti	Electronic circuits Microprocessors Electronics Microelectronics Circuits and Systems Processor Architectures Electronics and Microelectronics, Instrumentation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Background and Related Work -- System Model -- Experimental Framework -- Thermal Safe Power (TSP) -- Transient and Peak Temperature Computation based on Matrix Exponentials (MatEx) -- Selective Boosting for Multicore Systems (seBoost) -- Energy and Peak Power Efficiency Analysis for Simple Approximation Schemes -- Energy-Efficient Task-to-core Assignment for Homogeneous Clustered Manycores -- Energy-Efficient Task-to-core Assignment for Heterogeneous Clustered Manycores -- Conclusions.
Sommario/riassunto	This book focuses on two of the most relevant problems related to power management on multicore and manycore systems. Specifically, one part of the book focuses on maximizing/optimizing computational performance under power or thermal constraints, while another part focuses on minimizing energy consumption under performance (or real-time) constraints. Provides a comprehensive introduction to energy, power, and temperature management, highlighting the

different optimization goals, particularly computational performance, power and energy consumption, and temperature; Highlights the differences and similarities between the two key challenges of performance optimization under power or thermal constraints and energy minimization under performance constraints; Discusses in detail several means that can be used to optimize performance or energy while satisfying the desired constraints, including core heterogeneity, task-to-core assignment/mapping, dynamic power management (DPM), and dynamic voltage and frequency scaling (DVFS).