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Autore	Miller Rex <1929->
Titolo	Audel automated machines and toolmaking [[electronic resource] /] / Rex Miller, Mark Richard Miller
Pubbl/distr/stampa	Indianapolis, IN, : Wiley, c2004
ISBN	1-280-35408-9 9786610354085 0-7645-6871-X
Edizione	[All new 5th ed.]
Descrizione fisica	1 online resource (503 p.)
Collana	The Audel machinist's library
Altri autori (Persone)	MillerMark R
Disciplina	671.3/5
Soggetti	Automatic machinery Machine-tools Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Audel Automated Machines and Toolmaking All New 5th Edition; Contents; Acknowledgments; About the Authors; Introduction; Chapter 1: Jigs and Fixtures; Jigs; Fixtures; Summary; Review Questions; Chapter 2: Helix and Spiral Calculations; Milling a Helix; Change Gears; Milling a Spiral; Summary; Review Questions; Chapter 3: Spur Gear Computations; Evolution of Gears; Gear Teeth; Summary; Review Questions; Chapter 4: Gears and Gear Cutting; Development of Gear Teeth; Gear-Cutting Operations; Summary; Review Questions; Chapter 5: Cams and Cam Design; Cam Principles; Cam Design; How to Machine Cams SummaryReview Questions; Chapter 6: Dies and Diemaking; Cutting or Punching Dies; Shaping Dies; Combination Punching and Shaping Dies; Diemaking Operations; Summary; Review Questions; Chapter 7: Grinding; Cylindrical Grinders; Centerless Grinders; Internal Grinding; Surface Grinders; Cutter and Tool Grinding; Barrel Finishing (Abrasive Tumbling); Summary; Review Questions; Chapter 8: Laps and Lapping; Laps; Lapping Operations; Honing; Summary; Review Questions; Chapter 9: Toolmaking Operations; Introduction; Allowances and Tolerances; Layout; Summary; Review Questions

Chapter 10: Heat-Treating Furnaces Classification; Types of Furnaces; Controlled Atmosphere; Controlled-Atmosphere Furnaces; Temperature Control of Heat-Treating Furnaces; Summary; Review Questions; Chapter 11: Annealing, Hardening, and Tempering; Annealing; Hardening; Tempering; Summary; Review Questions; Chapter 12: Principles of Induction Heating; Adjustable Induction Heating Coil; Summary; Review Questions; Chapter 13: High-Frequency Induction Heating; Producing Heat by Resistance; Heating Units; High-Frequency Applications; Summary; Review Questions; Chapter 14: Furnace Brazing Basic Process Holding Assemblies Together; Laying and Pressing Parts Together; Summary; Review Questions; Chapter 15: Cold-Treating Process; Fundamental Principle of Cold Treating; Cold-Treating Procedures; Subzero Chilling; Summary; Review Questions; Chapter 16: Automatic Lathes; Automatic Turret Lathes; Automatic Threading Lathes; Summary; Review Questions; Chapter 17: The Automatic Screw Machine; Classification; Operating Principles; Selection and Use of Tools; Setting Up an Automatic Screw Machine; Dial-Controlled Machines; Summary; Review Questions; Chapter 18: Automated Machine Tools Basic Principles of Numerical Control Preparation for Numerical Control; Electronic Control of Machine Tools; Transducers; Summary; Review Questions; Chapter 19: Computerized Machining; Numerical Controls; Computer-Operated Machine Tools; CNC Components and Control System; Positioning Formats; Advantages of CNC over NC; CNC Programming; Machining Centers; CAD/CAM; Computer-Integrated Manufacturing (CIM); Summary; Review Questions; Appendix: Reference Materials; Colors and Approximate Temperatures for Carbon Steel; Nominal Dimensions of Hex Bolts and Hex Cap Screws Nominal Dimensions of Heavy Hex Bolts and Heavy Hex Cap Screws

Sommario/riassunto

Master today's toolmaking equipment Here, fully updated to include new machines and electronic and digital controls, is the ultimate guide to automated machines and toolmaking. Whether you're a professional machinist, an apprentice, or a trade student, this fully illustrated volume helps you work with metal safely, precisely, efficiently—using today's tools and techniques. It's packed with review questions for students, and loaded with answers you need on the job.* Understand automated machine fundamentals and work with jigs and fixtures * Learn the basics of spiral and helix mi

2. Record Nr.	UNINA9910482996303321
Titolo	Algorithms and Architectures for Parallel Processing : 10th International Conference, ICA3PP 2010, Busan, Korea, May 21-23, 2010. Workshops, Part II // edited by Sang-Soo Yeo, Jong Hyuk Park, Laurence Tianruo Yang, Ching-Hsien Hsu
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2010
ISBN	1-280-38665-7 9786613564573 3-642-13136-0
Edizione	[1st ed. 2010.]
Descrizione fisica	1 online resource (XXX, 468 p. 234 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 6082
Altri autori (Persone)	HsuChing-Hsien
Disciplina	003.3
Soggetti	Computer systems Algorithms Artificial intelligence Software engineering Information storage and retrieval systems Computer science Computer System Implementation Artificial Intelligence Software Engineering Information Storage and Retrieval Theory of Computation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The 2010 International Symposium on Frontiers of Parallel and Distributed Computing (FPDC 2010) -- Efficient Grid on the OTIS-Arrangement Network -- Single Thread Program Parallelism with Dataflow Abstracting Thread -- Parallel Programming on a Soft-Core Based Multi-core System -- Dynamic Resource Tuning for Flexible Core Chip Multiprocessors -- Ensuring Confidentiality and Integrity of Multimedia Data on Multi-core Platforms -- A Paradigm for Processing

Network Protocols in Parallel -- Real-Time Task Scheduling on
 Heterogeneous Two-Processor Systems -- A Grid Based System for
 Closure Computation and Online Service -- A Multiple Grid Resource
 Broker with Monitoring and Information Services -- Design
 Methodologies of Workload Management through Code Migration in
 Distributed Desktop Computing Grids -- Dynamic Dependent Tasks
 Assignment for Grid Computing -- Implementation of a Heuristic
 Network Bandwidth Measurement for Grid Computing Environments --
 An Efficient Circuit-Switched Broadcasting in Star Graph -- Parallel
 Domain Decomposition Methods for High-Order Finite Element
 Solutions of the Helmholtz Problem -- Self-Organizing Neural Grove
 and Its Distributed Performance -- A Massively Parallel Hardware for
 Modular Exponentiations Using the m-ary Method -- Emulation of
 Object-Based Storage Devices by a Virtual Machine -- Balanced Multi-
 process Parallel Algorithm for Chemical Compound Inference with
 Given Path Frequencies -- Harnessing Clusters for High Performance
 Computation of Gene Expression Microarray Comparative Analysis --
 Semantic Access Control for Corporate Mobile Devices -- A New Visual
 Simulation Tool for Performance Evaluation of MANET Routing Protocols
 -- A Web Service Composition Algorithm Based on Global QoS
 Optimizing with MOCACO -- Experiences Gained from Building
 aServices-Based Distributed Operating System -- Quick Forwarding of
 Queries to Relevant Peers in a Hierarchical P2P File Search System --
 iCTPH: An Approach to Publish and Lookup CTPH Digests in Chord --
 Toward a Framework for Cloud Security -- Cluster-Fault-Tolerant
 Routing in Burnt Pancake Graphs -- Edge-Bipancyclicity of All
 Conditionally Faulty Hypercubes -- The 2010 International Workshop
 on High Performance Computing Technologies and Applications
 (HPCTA 2010) -- Accelerating Euler Equations Numerical Solver on
 Graphics Processing Units -- An Improved Parallel MEMS Processing-
 Level Simulation Implementation Using Graphic Processing Unit --
 Solving Burgers' Equation Using Multithreading and GPU -- Support for
 OpenMP Tasks on Cell Architecture -- A Novel Algorithm for Faults
 Acquiring and Locating on Fiber Optic Cable Line -- A Parallel
 Distributed Algorithm for the Permutation Flow Shop Scheduling
 Problem -- A Self-Adaptive Load Balancing Strategy for P2P Grids --
 Embedding Algorithms for Star, Bubble-Sort, Rotator-Faber-Moore,
 and Pancake Graphs -- Performance Estimation of Generalized
 Statistical Smoothing to Inverse Halftoning Based on the MTF Function
 of Human Eyes -- Power Improvement Using Block-Based Loop Buffer
 with Innermost Loop Control -- An Efficient Pipelined Architecture for
 Fast Competitive Learning -- Merging Data Records on EREW PRAM --
 The 2010 International Workshop on Multicore and Multithreaded
 Architecture and Algorithms (M2A2 2010) -- Performance Modeling of
 Multishift QR Algorithms for the Parallel Solution of Symmetric
 Tridiagonal Eigenvalue Problems -- A Parallel Solution of Large-Scale
 Heat Equation Based on Distributed Memory Hierarchy System -- A New
 Metric for On-Line Scheduling and Placement in Reconfigurable
 Computing Systems -- Test Data Compression Using Four-Coded and
 Sparse Storage for Testing Embedded Core -- Extending a Multicore
 Multithread Simulator to Model Power-Aware Hard Real-Time Systems
 -- Real-Time Linux Framework for Designing Parallel Mobile Robotic
 Applications.

Sommario/riassunto

It is our great pleasure to present the proceedings of the symposia and
 workshops on parallel and distributed computing and applications
 associated with the ICA3PP 2010 conference. These symposia and
 workshops provide vibrant opportunities for researchers and industry
 practitioners to share their research experience, original research

results and practical development experiences in the new challenging research areas of parallel and distributed computing technologies and applications. It was the first time that the ICA3PP conference series added symposia and workshops to its program in order to provide a wide range of topics that extend beyond the main conferences. The goal was to provide a better coverage of emerging research areas and also forums for focused and stimulating discussions. With this objective in mind, we selected three workshops to accompany the ICA3PP 2010 conference: • FPDC 2010, the 2010 International Symposium on Frontiers of Parallel and Distributed Computing • HPCTA 2010, the 2010 International Workshop on High-Performance Computing, Technologies and Applications • M2A 2010, the 2010 International Workshop on Multicore and Multithreaded Architectures and Algorithms Each of the symposia / workshops focused on a particular theme and complemented the spectrum of the main conference. All papers published in the workshops proceedings were selected by the Program Committee on the basis of referee reports. Each paper was reviewed by independent referees who judged the papers for originality, quality, contribution, presentation and consistency with the theme of the workshops.
