Subject index for papers in Volume 39

| Each index entry below is accompanied by an author's name and a page number; the author index contains the title of the paper and the names of coauthors, if any. Communications are identified by (C). | | | Force microscopy studies of the molecular origins of friction and lubrication High-density data storage using proximal probe techniques | Mate Mamin | 617 681 |
|---|-----------------|------|---|---------------|------------|
| Subject | Author | Page | Carrier transport Probing electrical transport, electron interference, and quantum size effects at surfaces with STM/STS | Avouris | 603 |
| Adhesion science | | | | | |
| Force microscopy studies of the molecular origins of friction and lubrication | Mate | 617 | Channel subsystem architecture Custom design of CMOS low-power high-performance digital signal- processing macro for hard-disk- | | |
| Adsorption | | | drive applications | Shin | 83 |
| The femtosecond field-emission camera, a device for continuous observation of the motion of individual adsorbed atoms and molecules Algorithms | McClelland | 669 | Chemical vapor deposition Low-temperature chemical vapor deposition processes and dielectrics for microelectronic circuit manufacturing at IBM | Cote | 437 |
| A three-dimensional approach to | A1 | 575 | Circuit and device technology | | |
| parallel matrix multiplication (C) Flexible oblivious router architecture | Agarwal Park | 315 | A low-noise TTL-compatible CMOS off-chip driver circuit | Dhong | 105 |
| Aluminum | | | A 64Kb × 32 DRAM for graphics applications | Sunaga | 43 |
| Electromigration and stress-induced voiding in fine Al and Al-alloy thin- | | | Architectural timing verification of | Sunaga | 15 |
| film lines | Hu | 465 | CMOS RISC processors | Bose | 113 |
| Analytical models Modeling and characterization of | | | CMOS circuits for Gb/s serial data communication CMOS scaling in the 0.1-\(\mu\mathrm{m}\), 1.X- | Ewen | 73 |
| long on-chip interconnections for high-performance microprocessors | Deutsch | 547 | volt regime for high-performance applications CMOS scaling into the 21st century: | Shahidi | 229 |
| | | | $0.1 \mu m$ and beyond | Taur | 245 |
| Animation Use of multiple representations for simulating cloth shapes and | | | Design at the system level with VLSI CMOS Multipurpose DRAM architecture for | Sechler | 5 |
| motions: An overview | Ohta | 523 | optimal power, performance, and product flexibility | Ellis | 51 |
| Atomic force microscopy (AFM) Atomic force microscopy studies of SiGe films and Si/SiGe | - | | Performance of fiber-optic data links using 670-nm cw VCSELs and a monolithic Si photodetector and | | |

629

CMOS preamplifier

Lutz

heterostructures

63

Kuchta

| Reduced-voltage power/performance optimization of the 3.6-volt | | | Verity—A formal verification program for custom CMOS circuits | Kuehlmann | 149 |
|--|-------------|-----|--|-------------|-----|
| PowerPC 601 Microprocessor Verity—A formal verification | Bernstein | 33 | VLSI on-chip interconnection performance simulations and | | |
| program for custom CMOS circuits | Kuehlmann | 149 | measurements | Edelstein | 383 |
| Circuit theory and analysis Custom design of CMOS low-power high-performance digital signal- processing macro for hard-disk- | | | Codes and coding A unified table-based Viterbi subset decoder for high-speed voice-band modems (C) | Nobakht | 331 |
| drive applications Digital delay line clock shapers and | Shin | 83 | | 11000111 | 552 |
| multipliers | Bechade | 93 | Computational methods A three-dimensional approach to | | |
| High-level synthesis in an industrial environment | Bergamaschi | 131 | parallel matrix multiplication (C) | Agarwal | 575 |
| Interconnect design with VLSI CMOS Modeling and characterization of | Sechler | 23 | Computer applications Use of multiple representations for simulating cloth shapes and | | |
| long on-chip interconnections for high-performance microprocessors | Deutsch | 547 | motions: An overview | Ohta | 523 |
| Clocking Digital delay line clock shapers and | | | Computer architecture Flexible oblivious router architecture | Park | 315 |
| multipliers | Bechade | 93 | Computer-aided design | | |
| CMOS A half-micron CMOS logic | | | High-level synthesis in an industrial environment | Bergamaschi | 131 |
| generation | Koburger | 215 | Cryogenics | | |
| A low-noise TTL-compatible CMOS off-chip driver circuit A 64Kb × 32 DRAM for graphics | Dhong | 105 | Design and applications of a scanning SQUID microscope | Kirtley | 655 |
| applications Architectural timing verification | Sunaga | 43 | Crystals | | |
| of CMOS RISC processors CMOS circuits for Gb/s serial data | Bose | 113 | Atomic force microscopy studies of SiGe films and Si/SiGe | | |
| communication CMOS scaling in the $0.1-\mu m$, $1.X-$ | Ewen | 73 | heterostructures Design and applications of a scanning | Lutz | 629 |
| volt regime for high-performance | Shahidi | 229 | SQUID microscope | Kirtley | 655 |
| applications CMOS scaling into the 21st century: | | | Data transmission | | |
| 0.1 μm and beyond Custom design of CMOS low-power high-performance digital signal- | Taur | 245 | A unified table-based Viterbi subset decoder for high-speed voice-band modems (C) | Nobakht | 331 |
| processing macro for hard-disk- drive applications | Shin | 83 | An algorithm for adaptive cancellation of phase jitter (C) | Nobakht | 569 |
| Design at the system level with VLSI CMOS | Sechler | 5 | CMOS circuits for Gb/s serial data communication | Ewen | 73 |
| Digital delay line clock shapers and multipliers High-level synthesis in an industrial | Bechade | 93 | Performance of fiber-optic data links using 670-nm cw VCSELs and a monolithic Si photodetector and | | |
| environment Integrated cost and productivity learning in CMOS semiconductor | Bergamaschi | 131 | CMOS preamplifier | Kuchta | 63 |
| manufacturing Interconnect design with VLSI | Leonovich | 201 | Data, structures, and accessing High-density data storage using | | |
| CMOS | Sechler | 23 | proximal probe techniques Some thoughts about scanning probe | Mamin | 681 |
| Multipurpose DRAM architecture for optimal power, performance, and product flexibility | Ellis | 51 | microscopy, micromechanics, and storage | Pohl | 701 |
| Overview of gate linewidth control in the manufacture of CMOS logic | | | Design verification Architectural timing verification | | |
| chips Performance of fiber-optic data links using 670-nm cw VCSELs and a | Chesebro | 189 | of CMOS RISC processors Verity—A formal verification | Bose | 113 |
| monolithic Si photodetector and | | | program for custom CMOS circuits | Kuehlmann | 149 |
| CMOS preamplifier Reduced-voltage power/performance | Kuchta | 63 | Diffusion | | |
| optimization of the 3.6-volt PowerPC 601 Microprocessor | Bernstein | 33 | A half-micron CMOS logic generation | Koburger | 215 |
| The evolution of IBM CMOS DRAM | | | CMOS scaling into the 21st century: | - | |
| technology | Adler | 167 | 0.1 μm and beyond | Taur | 245 |

| Dislocations Atomic force microscopy studies of SiGe films and Si/SiGe | | | Image processing Design and applications of a scanning SQUID microscope | Kirtley | 655 |
|--|------------|-----|---|--------------|-----|
| heterostructures Electrical conduction | Lutz | 629 | The femtosecond field-emission camera, a device for continuous observation of the motion of | • | |
| Probing electrical transport, electron interference, and quantum size effects at surfaces with STM/STS | Avouris | 603 | individual adsorbed atoms and molecules | McClelland | 669 |
| | | | Insulators | | |
| Fabrication Integrated cost and productivity | | | Low-temperature chemical vapor deposition processes and | | |
| learning in CMOS semiconductor | | | dielectrics for microelectronic | | |
| manufacturing | Leonovich | 201 | circuit manufacturing at IBM | Cote | 437 |
| Fiber optics | | | Integrated circuit design | | |
| Performance of fiber-optic data links | | | A low-noise TTL-compatible CMOS | | |
| using 670-nm cw VCSELs and a | | | off-chip driver circuit A 64Kb × 32 DRAM for graphics | Dhong | 105 |
| monolithic Si photodetector and | Vuohta | 62 | applications | Sunaga | 43 |
| CMOS preamplifier | Kuchta | 63 | CMOS circuits for Gb/s serial data | · · | |
| Field emission | | | communication CMOS scaling in the 0.1 - μ m, $1.X$ - | Ewen | 73 |
| The femtosecond field-emission | | | volt regime for high-performance | | |
| camera, a device for continuous observation of the motion of | | | applications | Shahidi | 229 |
| individual adsorbed atoms and | | | CMOS scaling into the 21st century: | Mr. | 245 |
| molecules | McClelland | 669 | 0.1 μm and beyond Custom design of CMOS low-power | Taur | 245 |
| Films anitara | | | high-performance digital signal- | | |
| The use of STM to study metal film | | | processing macro for hard-disk- | 61. | 02 |
| epitaxy | Chambliss | 639 | drive applications Design at the system level with VLSI | Shin | 83 |
| Pil I | | | CMOS | Sechler | 5 |
| Films, metal Interconnect fabrication processes | | | Digital delay line clock shapers and | D 1 1 | 02 |
| and the development of low-cost | | | multipliers Modeling and characterization of | Bechade | 93 |
| wiring for CMOS products | Licata | 419 | long on-chip interconnections for | | |
| The use of STM to study metal film epitaxy | Chambliss | 639 | high-performance microprocessors | Deutsch | 547 |
| opitally | Chamons | 000 | Multipurpose DRAM architecture for optimal power, performance, and | | |
| Films, semiconductor | | | product flexibility | Ellis | 51 |
| Atomic force microscopy studies of SiGe films and Si/SiGe | | | Overview of gate linewidth control in | | |
| heterostructures | Lutz | 629 | the manufacture of CMOS logic chips | Chesebro | 189 |
| CMOS scaling in the 0.1 - μ m, $1.X$ - | | | Performance of fiber-optic data links | Chescoro | 10) |
| volt regime for high-performance applications | Shahidi | 229 | using 670-nm cw VCSELs and a | | |
| applications | Shanidi | 22) | monolithic Si photodetector and CMOS preamplifier | Kuchta | 63 |
| Films, superconducting | | | Reduced-voltage power/performance | Ruciita | 0.5 |
| Design and applications of a scanning | Kirtley | 655 | optimization of the 3.6-volt | | |
| SQUID microscope | Kirtiey | 055 | PowerPC 601 Microprocessor The evolution of IBM CMOS DRAM | Bernstein | 33 |
| Filters | | | technology | Adler | 167 |
| Custom design of CMOS low-power high-performance digital signal- | | | | | |
| processing macro for hard-disk- | | | Integrated circuits A half-micron CMOS logic | | |
| drive applications | Shin | 83 | generation | Koburger | 215 |
| C | | | Electromigration and stress-induced | | |
| Germanium Atomic force microscopy studies | | | voiding in fine Al and Al-alloy thin- film lines | Hu | 465 |
| of SiGe films and Si/SiGe | | | Interconnect fabrication processes | 114 | 100 |
| heterostructures | Lutz | 629 | and the development of low-cost | T • . | 410 |
| Graphics | | | wiring for CMOS products Low-temperature chemical vapor | Licata | 419 |
| Use of multiple representations for | | | deposition processes and | | |
| simulating cloth shapes and | Ohan | 500 | dielectrics for microelectronic | Cata | 427 |
| motions: An overview | Ohta | 523 | circuit manufacturing at IBM Silicides and local interconnections | Cote | 437 |
| Heterostructures and heterojunctions | | | for high-performance VLSI | | |
| Atomic force microscopy studies | | | applications | Mann | 403 |
| of SiGe films and Si/SiGe heterostructures | Lutz | 629 | The evolution of interconnection technology at IBM | Ryan | 371 |
| notorostructures | | 029 | toomology at 11111 | , | 5,1 |

| VLSI on-chip interconnection | | | Magnetic recording | | |
|--|-------------|-----|--|-----------|-----|
| performance simulations and measurements | Edelstein | 383 | High-density data storage using proximal probe techniques | Mamin | 681 |
| Interconnection technology A half-micron CMOS logic generation Electromigration and stress-induced | Koburger | 215 | Magnetics—studies and structures Design and applications of a scanning SQUID microscope | Kirtley | 655 |
| voiding in fine Al and Al-alloy thin- film lines | Hu | 465 | Magneto-optics High-density data storage using | | |
| Interconnect design with VLSI CMOS | Sechler | 23 | proximal probe techniques | Mamin | 681 |
| Interconnect fabrication processes | | | Manufacturing | | |
| and the development of low-cost wiring for CMOS products Low-temperature chemical vapor deposition processes and dielectrics for microelectronic | Licata | 419 | Integrated cost and productivity learning in CMOS semiconductor manufacturing | Leonovich | 201 |
| circuit manufacturing at IBM Modeling and characterization of | Cote | 437 | Materials technology VLSI on-chip interconnection performance simulations and | | |
| long on-chip interconnections for high-performance microprocessors Silicides and local interconnections | Deutsch | 547 | measurements | Edelstein | 383 |
| for high-performance VLSI applications | Mann | 403 | Mathematics A three-dimensional approach to parallel matrix multiplication (C) | Agarwal | 575 |
| The evolution of interconnection technology at IBM | Ryan | 371 | A walk along the branches of the | Agaiwai | 313 |
| VLSI on-chip interconnection | , | | extended Farey tree | Lagarias | 283 |
| performance simulations and measurements | Edelstein | 383 | Measurement Design and applications of a scanning | | |
| Interfaces The use of STM to study metal film | | | SQUID microscope Integrated cost and productivity | Kirtley | 655 |
| epitaxy | Chambliss | 639 | learning in CMOS semiconductor manufacturing | Leonovich | 201 |
| Large-scale computing Flexible oblivious router architecture | Park | 315 | VLSI on-chip interconnection performance simulations and measurements | Edelstein | 383 |
| Laser arrays | | | | | |
| Performance of fiber-optic data links using 670-nm cw VCSELs and a monolithic Si photodetector and | Wasal ta | (2 | Mechanical design Design and applications of a scanning SQUID microscope | Kirtley | 655 |
| CMOS preamplifier | Kuchta | 63 | Mechanics and mechanisms | | |
| Lithography | | | Force microscopy studies of the | | |
| A half-micron CMOS logic generation | Koburger | 215 | molecular origins of friction and lubrication | Mate | 617 |
| CMOS scaling in the $0.1-\mu m$, $1.X-$ | | | | | |
| volt regime for high-performance applications | Shahidi | 229 | Memory (computer) design and technolog A 64Kb × 32 DRAM for graphics | y | |
| CMOS scaling into the 21st century: | Т | | applications | Sunaga | 43 |
| 0.1 μm and beyond Overview of gate linewidth control in the manufacture of CMOS logic | Taur | 245 | Multipurpose DRAM architecture for optimal power, performance, and product flexibility | Ellis | 51 |
| chips | Chesebro | 189 | product nexionity | Ellis | 31 |
| The evolution of IBM CMOS DRAM technology | Adler | 167 | Microelectronics A half-micron CMOS logic | Koburger | 215 |
| Logic design and technology | | | generation A low-noise TTL-compatible CMOS | Roburger | 213 |
| Overview of gate linewidth control in the manufacture of CMOS logic | Cl. 1 | 100 | off-chip driver circuit A 64Kb × 32 DRAM for graphics | Dhong | 105 |
| chips | Chesebro | 189 | applications Architectural timing verification | Sunaga | 43 |
| Logic synthesis High-level synthesis in an industrial | | | of CMOS RISC processors CMOS circuits for Gb/s serial data | Bose | 113 |
| environment | Bergamaschi | 131 | communication CMOS scaling in the 0.1 - μ m, $1.X$ - | Ewen | 73 |
| Lubrication Force microscopy studies of the molecular origins of friction and | | | volt regime for high-performance applications CMOS scaling into the 21st century: | Shahidi | 229 |
| lubrication | Mate | 617 | $0.1 \mu m$ and beyond | Taur | 245 |

| Custom design of CMOS low-power high-performance digital signal- processing macro for hard-disk- | | 02 | Optimization Integrated cost and productivity learning in CMOS semiconductor | Leonovich | 201 |
|--|--------------------|-----------|--|------------|------------|
| drive applications Digital delay line clock shapers and | Shin | 83 | manufacturing | Leonovich | 201 |
| multipliers Modeling and characterization of long on-chip interconnections for high-performance microprocessors | Bechade Deutsch | 93 547 | Performance analysis Architectural timing verification of CMOS RISC processors VLSI on-chip interconnection | Bose | 113 |
| Multipurpose DRAM architecture for optimal power, performance, and | Ellis | 51 | performance simulations and measurements | Edelstein | 383 |
| product flexibility Overview of gate linewidth control in | Ellis | 31 | Physical chemistry | | |
| the manufacture of CMOS logic chips | Chesebro | 189 | Atomic force microscopy studies of SiGe films and Si/SiGe | | |
| Performance of fiber-optic data links using 670-nm cw VCSELs and a monolithic Si photodetector and | | | heterostructures Force microscopy studies of the molecular origins of friction and | Lutz | 629 |
| CMOS preamplifier Reduced-voltage power/performance | Kuchta | 63 | lubrication The femtosecond field-emission | Mate | 617 |
| optimization of the 3.6-volt PowerPC 601 Microprocessor | Bernstein | 33 | camera, a device for continuous observation of the motion of | | |
| The evolution of IBM CMOS DRAM technology | Adler | 167 | individual adsorbed atoms and molecules | McClelland | 669 |
| Verity—A formal verification program for custom CMOS circuits | Kuehlmann | 149 | The use of STM to study metal film epitaxy | Chambliss | 639 |
| Microprocessor systems and applications | | | Physics | | |
| Reduced-voltage power/performance optimization of the 3.6-volt | Domestala | 22 | The femtosecond field-emission camera, a device for continuous | | |
| PowerPC 601 Microprocessor VLSI on-chip interconnection | Bernstein | 33 | observation of the motion of individual adsorbed atoms and | | |
| performance simulations and measurements | Edelstein | 383 | molecules | McClelland | 669 |
| Models and modeling | | | Physics, solid state Design and applications of a scanning | | |
| High-level synthesis in an industrial environment Modeling and characterization of | Bergamaschi | 131 | SQUID microscope Probing electrical transport, electron | Kirtley | 655 |
| long on-chip interconnections for high-performance microprocessors Use of multiple representations for | Deutsch | 547 | interference, and quantum size effects at surfaces with STM/STS The use of STM to study metal film | Avouris | 603 |
| simulating cloth shapes and motions: An overview | Ohta | 523 | epitaxy Proximal probe techniques | Chambliss | 639 |
| Multiprocessors Flexible oblivious router architecture | Park | 315 | Design and applications of a scanning SQUID microscope Force microscopy studies of the | Kirtley | 655 |
| Noise A low-noise TTL-compatible CMOS | | | molecular origins of friction and lubrication | Mate | 617 |
| off-chip driver circuit An algorithm for adaptive | Dhong | 105 | High-density data storage using proximal probe techniques | Mamin | 681 |
| cancellation of phase jitter (C) | Nobakht | 569 | Some thoughts about scanning probe | | |
| CMOS circuits for Gb/s serial data communication | Ewen | 73 | microscopy, micromechanics, and storage | Pohl | 701 |
| Number theory | | | Quantum theory and effects | | |
| A walk along the branches of the extended Farey tree | Lagarias | 283 | Probing electrical transport, electron interference, and quantum size effects at surfaces with STM/STS | Avouris | 603 |
| Operating systems Properties of delay-cost scheduling in time-sharing systems | Franaszek | 295 | Recording technology High-density data storage using | | 604 |
| Optical science and technology Some thoughts about scanning probe microscopy, micromechanics, and | | | proximal probe techniques Some thoughts about scanning probe microscopy, micromechanics, and | Mamin | 681 |
| storage | Pohl | 701 | storage | Pohl | 701 |
| Optics Some thoughts about scanning probe microscopy, micromechanics, and | Dobl | 701 | Reliability Electromigration and stress-induced voiding in fine Al and Al-alloy thin- film lines | Hu | 465 |
| storage | Pohl | /01 | mm mics | | |

| Pamota sansina | | | Silicides and local interconnections | | |
|---|-----------|------|---|------------|-----|
| Remote sensing Design and applications of a scanning | | | for high-performance VLSI | | |
| SQUID microscope High-density data storage using | Kirtley | 655 | applications The evolution of IBM CMOS DRAM | Mann | 403 |
| proximal probe techniques | Mamin | 681 | technology | Adler | 167 |
| Probing electrical transport, electron interference, and quantum size | | | The evolution of interconnection technology at IBM | Ryan | 371 |
| effects at surfaces with STM/STS | Avouris | 603 | VLSI on-chip interconnection | Kyan | 511 |
| Some thoughts about scanning probe | | | performance simulations and | Edelstein | 383 |
| microscopy, micromechanics, and storage | Pohl | 701 | measurements | Edelstein | 363 |
| The use of STM to study metal film | OL -1-1: | (20) | Semiconductors | | |
| epitaxy | Chambliss | 639 | Probing electrical transport, electron interference, and quantum size | | |
| Scanning tunneling microscopy | | | effects at surfaces with STM/STS | Avouris | 603 |
| Design and applications of a scanning SQUID microscope | Kirtley | 655 | Signal processing | | |
| High-density data storage using | • | | Interconnect design with VLSI | | |
| proximal probe techniques Probing electrical transport, electron | Mamin | 681 | CMOS | Sechler | 23 |
| interference, and quantum size | | | Silicides | | |
| effects at surfaces with STM/STS The use of STM to study metal film | Avouris | 603 | Silicides and local interconnections | | |
| epitaxy | Chambliss | 639 | for high-performance VLSI applications | Mann | 403 |
| Schedulers | | | | | |
| Properties of delay-cost scheduling in | | | Silicon Atomic force microscopy studies | | |
| time-sharing systems | Franaszek | 295 | of SiGe films and Si/SiGe | | |
| Semiconductor devices | | | heterostructures Probing electrical transport, electron | Lutz | 629 |
| Overview of gate linewidth control in | | | interference, and quantum size | | |
| the manufacture of CMOS logic chips | Chesebro | 189 | effects at surfaces with STM/STS | Avouris | 603 |
| The evolution of IBM CMOS DRAM | | | Simulation | | |
| technology | Adler | 167 | VLSI on-chip interconnection | | |
| Semiconductor technology | | | performance simulations and measurements | Edelstein | 383 |
| A low-noise TTL-compatible CMOS off-chip driver circuit | Dhong | 105 | | | |
| A $64\text{Kb} \times 32$ DRAM for graphics | Dilong | | Solid-state files Design of a solid-state file using flash | | |
| applications CMOS circuits for Gb/s serial data | Sunaga | 43 | EEPROM | Niijima | 531 |
| communication | Ewen | 73 | Stangag (commutan) davison and mutanes | | |
| Custom design of CMOS low-power high-performance digital signal- | | | Storage (computer) devices and systems Design of a solid-state file using flash | | |
| processing macro for hard-disk- | | | EEPROM | Niijima | 531 |
| drive applications Design at the system level with VLSI | Shin | 83 | High-density data storage using proximal probe techniques | Mamin | 681 |
| CMOS | Sechler | 5 | Some thoughts about scanning probe microscopy, micromechanics, and | | |
| Digital delay line clock shapers and multipliers | Bechade | 93 | storage | Pohl | 701 |
| Electromigration and stress-induced | 200 | | Company de ativite high T | | |
| voiding in fine Al and Ai-alloy thin- film lines | Hu | 465 | Superconductivity, high- T_c Design and applications of a scanning | | |
| Interconnect fabrication processes | | | SQUID microscope | Kirtley | 655 |
| and the development of low-cost wiring for CMOS products | Licata | 419 | Surface effects | | |
| Low-temperature chemical vapor | | | Atomic force microscopy studies | | |
| deposition processes and dielectrics for microelectronic | | | of SiGe films and Si/SiGe heterostructures | Lutz | 629 |
| circuit manufacturing at IBM | Cote | 437 | Force microscopy studies of the | | |
| Multipurpose DRAM architecture for optimal power, performance, and | | | molecular origins of friction and lubrication | Mate | 617 |
| product flexibility | Ellis | 51 | Probing electrical transport, electron | | |
| Overview of gate linewidth control in the manufacture of CMOS logic | | | interference, and quantum size effects at surfaces with STM/STS | Avouris | 603 |
| chips | Chesebro | 189 | The femtosecond field-emission | | |
| Performance of fiber-optic data links using 670-nm cw VCSELs and a | | | camera, a device for continuous observation of the motion of | | |
| monolithic Si photodetector and | | | individual adsorbed atoms and | M (21 " : | 660 |
| CMOS preamplifier | Kuchta | 63 | molecules | McClelland | 669 |

| Surface science Atomic force microscopy studies of SiGe films and Si/SiGe | | | Verity—A formal verification program for custom CMOS circuits VLSI on-chip interconnection | Kuehlmann | 149 |
|---|-------------|-----|--|-----------|-----|
| heterostructures Force microscopy studies of the molecular origins of friction and | Lutz | 629 | performance simulations and measurements | Edelstein | 383 |
| lubrication The femtosecond field-emission camera, a device for continuous observation of the motion of | Mate | 617 | | | |
| individual adsorbed atoms and molecules | McClelland | 669 | | | |
| Testing, chip Architectural timing verification of CMOS RISC processors | Bose | 113 | | | |
| Testing, circuit | | | | | |
| Architectural timing verification of CMOS RISC processors Verity—A formal verification | Bose | 113 | | | |
| program for custom CMOS circuits | Kuehlmann | 149 | | | |
| Time-sharing, applications Properties of delay-cost scheduling in time-sharing systems | Franaszek | 295 | | | |
| VLSI | | | | | |
| A half-micron CMOS logic generation | Koburger | 215 | | | |
| A low-noise TTL-compatible CMOS off-chip driver circuit | Dhong | 105 | | | |
| A 64Kb × 32 DRAM for graphics applications | Sunaga | 43 | | | |
| Architectural timing verification of CMOS RISC processors | Bose | 113 | | | |
| CMOS circuits for Gb/s serial data communication | Ewen | 73 | | | |
| CMOS scaling in the 0.1-μm, 1.X-volt regime for high-performance | | | | | |
| applications CMOS scaling into the 21st century: | Shahidi | 229 | | | |
| 0.1 µm and beyond Custom design of CMOS low-power high-performance digital signal- | Taur | 245 | • | | |
| processing macro for hard-disk- drive applications | Shin | 83 | | | |
| Design at the system level with VLSI CMOS | Sechler | 5 | | | |
| Digital delay line clock shapers and multipliers | Bechade | 93 | | | |
| High-level synthesis in an industrial environment | Bergamaschi | 131 | | | |
| Interconnect design with VLSI CMOS Multipurpose DRAM architecture for | Sechler | 23 | | | |
| optimal power, performance, and product flexibility | Ellis | 51 | | | |
| Overview of gate linewidth control in the manufacture of CMOS logic chips Performance of fiber-optic data links | Chesebro | 189 | | | |
| using 670-nm cw VCSELs and a monolithic Si photodetector and CMOS preamplifier Reduced-voltage power/performance | Kuchta | 63 | | | |
| optimization of the 3.6-volt PowerPC 601 Microprocessor | Bernstein | 33 | | | |
| The evolution of IBM CMOS DRAM technology | Adler | 167 | | | |
| · · · · · · · · · · · · · · · · · · · | | | | | |