

Subject Index for Papers in Volume 26

Each index term below is accompanied by a page number and an author's name. With that name in the Author Index are the title of the paper and the names of coauthors, if any.

Subject	Author	Page
Algorithms		
Computer design verification	Smith	106
Computer timing analysis	Hitchcock	100
Cursive script recognition	Tappert	765
Digital image halftoning	Anastassiou	687
Document analysis system	Wong	647
Image resolution translation	Abdou	667
Image segmentation algorithm	Danielsson	698
Image vectorization	Jimenez	724
Principal components experiments	Dave	715
Scaling print fonts	Casey	657
Separating patterns by ellipsoids	Barnes	759
Suspend lock performance	Hofmann	242
Text compression for facsimile	Brickman	681
2D convolution and transform methods	Kriz	708
Analytical models		
EDFI model	Bossen	67
Multi-parametric approach to process optimization	Bergendahl	580
Thin-film module	Ho	286
Arithmetic and logical unit design		
Common chip for disk and diskette controllers	Dix	440
VLSI microprocessor design considerations	Campbell	454
3081 processor unit design	Gustafson	2
Character recognition		
Cursive script recognition	Tappert	765
Separating patterns by ellipsoids	Barnes	759
Chemistry and chemical engineering		
Laser-enhanced chemical etching	Chuang	145
Laser-enhanced plating and etching	von Gutfeld	136
Mechanism of chlorobenzene liftoff	Halverson	590
Molecular orientation in thin films	Rabolt	209
Multiple photochemical hole burning	Gutiérrez	198
Oxygen incorporation in Czochralski silicon	Murgai	546
Process control of chlorobenzene liftoff	Collins	596
VLSI bipolar metallization design	Fried	362
Chip connection technology		
Indium-lead alloys	Howard	372
Coding theory		
Bounded delay codes	Franaszek	506
Communications and communication networks		
Bounded delay codes	Franaszek	506
Structured distributed plant automation system	Mescia	497
Text compression for facsimile	Brickman	681

Compilers and interpreters		
Signal processor software support	Davies	431
Complexity theory		
Rectangular transforms for signal processor	Cooley	424
Computational methods		
Rectangular transforms for signal processor	Cooley	424
Computer applications		
Digital multi-image analysis	Montoto	735
Computer development and technology		
3081 system	Pittler	2
Computer organization and design		
Common chip for disk and diskette controllers	Dix	440
Microprocessor for signal processing	Mintzer	413
Microprocessor implementation of mainframe processors	Agnew	401
VLSI microprocessor design considerations	Campbell	454
3081 processor controller	Reilly	22
3081 processor unit design	Gustafson	12
3081 system development and technology	Pittler	2
Computer performance analysis		
Simulating queue networks	Shedler	625
Suspend lock performance	Hofmann	242
Design automation		
Computer design verification	Smith	106
Computer package electrical design	Davidson	349
Computer timing analysis	Hitchcock	100
VLSI design verification strategy	Tran	475
VLSI microprocessor chip design	Mathews	464
VLSI physical design verification	McCabe	485
3081 design verification system	Monachino	89
Design verification		
VLSI design verification strategy	Tran	475
VLSI physical design verification	McCabe	485
3081 design verification system	Monachino	89
Diagnostic methodology		
3081 automated diagnostic methodology	Tendolkar	78
Display technology		
GaAlAs lasers and high-resolution LC projection displays	Dewey	177
Image projection with nonlinear optics	Levenson	160
Electrical characteristics of printed-circuit boards		
Advanced printed-circuit design	Bonner	297
Electrical packaging technology		
Advanced printed-circuit board design	Bonner	297
Computer package electrical design	Davidson	349
Conduction-cooled module	Oktay	55
EDFI model	Bossen	67
High-density board fabrication	Bupp	306
LSI circuit interconnection technology	Babuka	318
LSI package wireability	Koch	328
Printed circuit technologies for the 3081	Seraphim	37
Thermal conduction module	Blodgett	30

Thermal conduction module	Chu	45	Printed circuit technologies for the		
Thin-film module	Ho	286	3081	Seraphim	37
Electrophotography			Quality and reliability assurance		
Lasers in electrophotography	Tam	186	systems	Melan	613
Error control and recovery			Semiconductor manufacturing		
3081 automated diagnostic			technology	Carre	528
methodology	Tendolkar	78	Single chip module	Bendz	278
Error control codes			Thermal conduction module	Blodgett	30
EDFI model	Bossen	67	Thin-film module	Ho	286
3081 automated diagnostic			VLSI bipolar metallization design	Fried	362
methodology	Tendolkar	78	Yield management	Stapper	532
Fabrication			3081 system development and		
Electron-beam proximity printing	Bohlen	568	technology	Pittler	2
High-density board fabrication	Bupp	306	Lasers and their applications		
Immersion wave soldering process	Getten	379	Contact lithography with excimer		
Laser-induced arcing in cathode ray			lasers	Jain	151
tubes	Hodgson	235	Electrophotography	Tam	186
Lead reduction among combinatorial			High-resolution LC projection		
logic circuits	Vilkelis	342	displays	Dewey	177
Printed circuit technologies for the			Holography in 3687 supermarket		
3081	Seraphim	37	scanner	Dickson	228
Thermal conduction module	Blodgett	30	Image projection	Levenson	160
Thin-film module	Ho	286	Infrared holographic materials	Bräuchle	217
Graphics			Integrated optics and Raman		
Digital image halftoning	Anastassiou	687	scattering	Rabolt	209
Holography			Laser-enhanced chemical etching	Chuang	145
IBM 3687 supermarket scanner	Dickson	228	Laser-enhanced plating and etching	von Gutfeld	136
New materials for infrared			Laser-induced arcing	Hodgson	235
holography	Bräuchle	217	Modification of semiconductor		
Image processing			devices	Kiang	171
Backscatter and attenuation imaging	Farrell	746	Multiple photochemical hole burning	Gutiérrez	198
Digital image halftoning	Anastassiou	687	Lithography		
Digital multi-image analysis	Montoto	735	Electron-beam proximity printing	Bohlen	568
Document analysis system	Wong	647	Feature size control	Frasch	561
Image resolution translation	Abdou	667	Laser-enhanced chemical etching	Chuang	145
Image segmentation algorithm	Danielsson	698	Laser-enhanced plating and etching	von Gutfeld	136
Image vectorization	Jimenez	724	Mechanism of chlorobenzene		
Principal components experiments	Dave	715	single-step liftoff	Halverson	590
Scaling print fonts	Casey	657	Metrology in mask manufacture	Rottmann	553
Text compression for facsimile	Brickman	681	Ultrafast high-resolution contact		
2D convolution and transform			lithography	Jain	151
methods	Kriz	708	Logic design and technology		
Indium-lead alloys			Lead reduction among combinatorial		
For chip connections	Howard	372	logic circuits	Vilkelis	342
Integrated circuit design			VLSI microprocessor design		
Conduction-cooled module	Oktay	55	considerations	Campbell	454
Conduction cooling for LSI	Chu	45	3081 processor unit design	Gustafson	12
EDFI model	Bossen	67	3081 system development and		
Lead reduction among combinatorial			technology	Pittler	2
logic circuits	Vilkelis	342	LSI chip design automation		
Single chip module	Bendz	278	Computer design verification	Smith	106
VLSI microprocessor chip design	Mathews	464	Computer timing analysis	Hitchcock	100
16-bit microprocessor physical			LSI package wireability	Koch	328
design	Correale	446	VLSI design verification strategy	Tran	475
Interconnection technology			VLSI microprocessor chip design	Mathews	464
LSI circuit	Babuka	318	VLSI physical design verification	McCabe	485
Large-scale integration			Manufacturing technology		
Computer package electrical design	Davidson	349	Czochralski-grown silicon	Murgai	546
Conduction-cooled module	Oktay	55	Feature size control	Frasch	561
Conduction cooling for LSI	Chu	45	Final logistics and product		
LSI package wireability	Koch	328	dispositioning	Burgess	605
			High-density board fabrication	Bupp	306
			Immersion wave soldering process	Getten	379
			Metrology in mask manufacture	Rottmann	553
			Optimization of plasma processing	Bergendahl	580
			Quality and reliability assurance		
			systems	Melan	613

Semiconductor manufacturing technology	Carre	528	Physics and physical chemistry		
Single-step liftoff	Collins	596	Laser-enhanced plating and etching	von Gutfeld	136
Yield management	Stapper	532	Plant automation		
Materials			Structured distributed system	Mescia	497
Czochralski-grown silicon	Murgai	546	Polymers		
Diazo-type resists	Collins	596	Photochemical hole burning in organic glasses and polymers	Gutiérrez	198
Diazo-type resists	Halverson	590	Printed-circuit board fabrications		
Indium-lead alloys for chip connections	Howard	372	High-density fabrication	Bupp	306
New infrared holographic materials	Bräuchle	217	Printed-circuit board design		
Printed circuit technology for the 3081	Seraphim	37	Advanced printed circuit	Bonner	297
Single chip module	Bendz	278	Processor controller design		
VLSI bipolar metallization	Fried	362	3081 processor controller	Reilly	22
Mathematics (applied)			Programming and programming languages		
Image vectorization	Jimenez	724	Signal processor software support	Davies	431
Rectangular transforms for signal processor	Cooley	424	Programming systems development		
2D convolution and transform methods	Kriz	708	Signal processor software support	Davies	431
Mechanics and mechanisms			Real-time processors		
LSI circuit interconnection technology	Babuka	318	Signal processor	Mintzer	413
Mechanism of chlorobenzene liftoff	Halverson	590	Reliability		
Medical electronics			Indium-lead alloys for chip connections	Howard	372
Backscatter and attenuation imaging	Farrell	746	Single chip module	Bendz	278
Memory design and technology			3081 automated diagnostic methodology	Tendolkar	78
Storage aspects of photochemical hole burning	Gutiérrez	198	Semiconductor technology		
Microcontrollers			Chlorobenzene single-step liftoff	Collins	596
Common chip for disk and diskette controllers	Dix	440	Czochralski-grown silicon	Murgai	546
Microprocessor-based applications			Laser modification of device characteristics	Kiang	171
Final logistics and product dispositioning	Burgess	605	Mechanism of chlorobenzene liftoff	Halverson	590
Microprocessor-based system design			Plasma processing for Si gate FET devices	Bergendahl	580
Implementation of mainframe processors	Agnew	401	Signal processing		
Microprocessor design and technology			Microprocessor for signal processing	Mintzer	413
Common chip for disk and diskette controllers	Dix	440	Signal processing transforms		
VLSI chip design	Mathews	464	Rectangular transforms	Cooley	424
VLSI considerations	Campbell	454	Signal processor program support		
16-bit microprocessor physical design	Correale	446	Software support	Davies	431
Microprocessor systems			Simulation		
Implementation of mainframe processors	Agnew	401	VLSI design verification strategy	Tran	475
Models and modeling			VLSI physical design verification	McCabe	485
Multi-parametric approach to process optimization	Bergendahl	580	3081 design verification system	Monachino	89
Simulating queue networks	Shedler	625	Solid state physics		
Suspend lock performance	Hofmann	242	Image projection with nonlinear optics	Levenson	160
Yield management	Stapper	532	Laser modification of semiconductor device characteristics	Kiang	171
3081 design verification system	Monachino	89	Statistics		
Pattern recognition			Simulating queue networks	Shedler	625
Cursive script recognition	Tappert	765	Structured distributed system		
Document analysis system	Wong	647	Plant automation system	Mescia	497
Image segmentation algorithm	Danielsson	698	System architecture and development		
Rescaling print fonts	Casey	657	Microprocessor for signal processing	Mintzer	413
Separating patterns by ellipsoids	Barnes	759	Microprocessor implementation of mainframe processors	Agnew	401
Performance analysis			3081 processor controller	Reilly	22
Simulating queue networks	Shedler	625	3081 processor unit design	Gustafson	12
Suspend lock performance	Hofmann	242			