## Subject index for papers in Volume 28

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.

author's name. With that name in the autho	r inaex are ine i	itte oj ine	ACORN: CVS macro design by tree	паиде	390
paper and the names of coauthors, if any.			placement and customization	Cillian	E 4.6
			Automated technology mapping	Gilkinson	546
Subject	Author	Page	CMOS LSSD test generation system	Leet	625
	21111107	Tuge	Computer timing analysis	Tryon	340
Algorithms			Constraint solver for generalized IC	Cook	581
Traveling salesman problem	Held	476	layout		
Analytical models			Custom chip/card design	Barone	590
Concentration of surface-active agent	Schubert	741	Device-independent graphics for	Capelli	512
Electroless plating	Bindra	668	CAD		
Moisture absorption-desorption	Marsh	655	Hardware design and description	Maissel	557
Plating chemistry	Kovac	726	languages in IBM		
,	Rovac	720	Hardware simulation engine for	Barzilai	564
APL			custom MOS designs		
Empty arrays in extended APL	Orth	412	Interactive VLSI chip physical design	Elder	524
Chemistry and chemical engineering			Iterative-improvement penalty-	Linsker	613
Immersion tin	Kovac	726	function-driven wire routing		0.0
			KWIRE: multiple-technology user-	Elmendorf	603
Initiation of plating	Horkans	690	reconfigurable wiring tool for VLSI	Limendon	003
Moisture solubility in epoxy	Marsh	655	LSS: system for production logic	Darringer	537
Plating mechanisms	Bindra	668		Dairinger	331
Plating mechanisms	Bindra	679	synthesis	Cialaniala	572
Polyimide film stability	Ginsburg	735	PSI: symbolic layout system	Fiebrich	
Surface-active agents	Schubert	741	Software architecture for mature	Taylor	501
Coding theory			design automation system		
Introduction to arithmetic coding	Langdon	135	Display technology		
Universal Reed/Solomon decoder	Blahut	150	APA mapping scheme	Ostapko	393
	Dianat	130	APA RAM chip	Matick	379
Compilers and interpreters					
Access functions	Ris	40	Electronic packaging technology	<b>a</b> 1:	
Empty arrays in extended APL	Orth	412	Advances in materials and processes	Seraphim	652
Interactive language implementation	Sowa	28	Micromechanics of printed circuits	Lee	711
Complexity theory			Moisture solubility and diffusion	Marsh	655
Software complexity measures	Hall	15	Optimization of interconnections	Kelly	719
Traveling salesman problem	Held	476	Plating initiation	Horkans	690
Travening salesinali problem	neid	4/0	Plating mechanisms	Bindra	668
Computer-aided design			Plating mechanisms	Bindra	679
Device-independent graphics for	Capelli	512	Polyimide film stability	Ginsburg	735
CAD	-		El a la la		
Computer architecture			Electroless plating	m: 1	(70
	-	256	Decomposition of formaldehyde	Bindra	679
Measures of ideal execution	Flynn	356	Mixed potential theory	Bindra	668
architectures	<b>6</b> 1	0.5	Electrophotographic printing		
Shared storage performance	Goyal	95	Electrophotographic technology	Lee	241
Computer organization and design				Lee	241
Timing analysis	Tryon	340	trends	n	202
Timing unaryous	11,011	2.0	Flash fusing	Baumann	292
Computer performance analysis			Key technologies and milestones in	Myers	234
Shared storage systems	Goyal	95	computer output printing		20-
	-		Paper material considerations	Borch	285
Control systems	_		Print quality measurements	Crawford	276
3800 Models 3 and 8: control	Barrera	263	3800 Models 3 and 8: technology	McMurtry	257

Design automation

ACORN: CVS macro design by tree

765

596

Hauge

Error control and recovery		201	Design of static LSSD polarity hold	Correale	370
Analysis of correctable errors in IBM 3380 disk file	Howell	206	latch pair  Hardware design and description	Maissel	557
(b,k)-adjacent error-correcting/ detecting scheme for	Arlat	159	languages in IBM Hardware simulation engine for	Barzilai	564
supercomputers Error-correcting codes for	Chen	124	custom MOS designs Iterative-improvement penalty-	Linsker	613
semiconductor memory applications: review	_		function-driven wire routing KWIRE: multiple-technology user-	Elmendorf	603
Fault alignment exclusion using address permutation	Bossen	170	reconfigurable wiring tool for VLSI Modeling defects	Stapper	461
Fault-tolerant design for semiconductor memory	Aichelmann	177	PSI: symbolic layout system Yield model	Fiebrich Stapper	572 636
Fault-tolerant memory simulator	Chen	184	i icia modei	Stapper	030
General-purpose memory reliability simulator	Libson	196	Interpretive-execution architecture Measures of ideal execution	Flynn	356
Introduction to arithmetic coding	Langdon	135	architectures		
Iterative exhaustive pattern	Tang	212	I/O channel subsystems		
generation for logic testing			Digital data exchange—space-division	Hopner	444
Universal Reed-Solomon decoder	Blahut	150	switching	Порисі	777
Error control codes			I/O devices		
Error-correcting codes for	Chen	124	Digital data exchange—space-division	Hopner	444
semiconductor memory applications: review			switching	•	
• •			I/O technologies		
Error detection and correction		201	Digital data exchange—space-division	Hopner	444
Analysis of correctable errors in IBM 3380 disk file	Howell	206	switching	•	
(b,k)-adjacent error-correcting/	Arlat	159	Large-scale integration		
detecting scheme for		10)	ACORN: CVS macro design by tree	Hauge	596
supercomputers			placement and customization		
Fault-tolerant memory simulator	Chen	184	Custom chip/card design	Barone	590
Fault-tolerant systems			Design of static LSSD polarity hold	Correale	370
Fault alignment exclusion using	Bossen	170	latch pair	Barzilai	564
address permutation	2000011	2.0	Hardware simulation engine for custom MOS designs	Barziiai	304
Fault-tolerant design for	Aichelmann	177	Interactive VLSI chip physical design	Elder	524
semiconductor memory			Iterative-improvement penalty-	Linsker	613
Fault-tolerant memory simulator	Chen	184	function-driven wire routing		
Films			KWIRE: multiple-technology user-	Elmendorf	603
High-temperature stability	Ginsburg	735	reconfigurable wiring tool for VLSI	<b>a</b> .	
Microstructure of deposited Cu	Kim	697	Modeling defects	Stapper	461
Moisture solubility and diffusion	Marsh	655	Resist profile control Yield model	Gillespie Stapper	454 636
Study of moisture swelling	Berry	662	i ieid model	Stapper	030
Crombias			Lithography		
Graphics APA mapping scheme	Ostapko	393	Resist profile control	Gillespie	454
APA RAM chip	Matick	379	Logic design and technology		
Device-independent graphics for	Capelli	512	Design of static LSSD polarity hold	Correale	370
CAD			latch pair		
Impact printing			Iterative exhaustive pattern	Tang	212
Key technologies and milestones in	Myers	234	generation for logic testing	ъ.	537
computer output printing	,		LSS: system for production logic synthesis	Darringer	537
Ink jet printing			•		
Experimental drop-on-demand print	Lee	307	Logic design testing	Y4	(25
head	200	207	CMOS LSSD test generation system Design of static LSSD polarity hold	Leet Correale	625 370
Key technologies and milestones in	Myers	234	latch pair	Correale	370
computer output printing	<b>.</b>	•••	Iterative exhaustive pattern	Tang	212
Multiple-nozzle printing experiment	Darling	300	generation for logic testing		
Numerical calculation of fluid dynamics of drop-on-demand jets	Fromm	322	Managaratusing task malagu		
Study of wave propagation in drop-	Bogy	314	Manufacturing technology Advances in materials and processes	Seraphim	652
on-demand devices	2061	317	•	Scrapiniii	332
*			Materials		
Integrated circuits	Цамас	506	Advances in materials and processes	Seraphim	652
ACORN: CVS macro design by tree placement and customization	Hauge	596	Film moisture measurement Microstructure of copper	Berry Kim	662 697
Constraint solver for generalized IC	Cook	581	Moisture in films	Marsh	655
layout		-0.	Paper material considerations for	Borch	285
Custom chip/card design	Barone	590	electrophotographic printers		

w			- ·		
Plating studies	Horkans	690	Packaging	0	(63
Plating studies	Bindra Bindra	668 679	Advances in materials and processing	Seraphim Kelly	652 719
Plating studies Polyimide films	Ginsburg	735	Optimization of interconnections	Relly	/19
•	Ginsoung	, 55	Performance analysis		
Measurement	_		Shared storage systems	Goyal	95
Moisture swelling in polymers	Berry	662 711	Physics and physical chemistry		
Strain in through-holes Print quality measurements for	Lee Crawford	276	Advances in materials and processes	Seraphim	652
electrophotographic printers	Ciawioid	270	Determination of surface-active	Schubert	741
			agents		
Mechanics and mechanisms	-		Immersion tin	Kovac	726
Micromechanics of printed circuits	Lee	711	Moisture solubility and diffusion	Marsh	655
Memory design and technology			Plating		
Analysis of correctable errors in IBM	Howell	206	Electroless plating	Bindra	668
3380 disk file	Char	104	Electroless plating	Bindra	679
Fault-tolerant memory simulator General-purpose memory reliability	Chen Libson	184 196	Electroless plating	Horkans	690
simulator	Lioson	190	Immersion tin	Kovac	726
			Programming and programming		
Memory management		201	languages		
Analysis of correctable errors in IBM 3380 disk file	Howell	206	Access functions	Ris	40
Fault-tolerant memory simulator	Chen	184	Complexity measures	Hall	15
General-purpose memory reliability	Libson	196	Empty arrays in extended APL Entity-relationship diagrams	Orth Casanova	412 82
simulator			Language implementation system	Sowa	28
Madallana			Multi-version program editor	Kruskal	74
Metallurgy Immersion tin	Kovac	726	NIL programming methodology	Strom	52
Microstructure of deposited Cu	Kim	697	Optimizing preventive service	Adams	
microstructure of deposited eu	Killi	077	Program development tool	Alberga	60
Micrography	***	<b>607</b>	Reliability models	Ohba	428
Microstructure of deposited Cu	Kim	697	Quality in software		
Models and modeling			Access functions	Ris	40
Electroless plating	Bindra	668	Complexity measures	Hall	15
Moisture absorption-desorption	Marsh	655	Entity-relationship diagrams	Casanova	82
Integrated circuit defects	Stapper	461	Language implementation tool	Sowa	28
Semiconductor yield Shared storage performance	Stapper Goyal	636 95	Multi-version program editor NIL programming methodology	Kruskal Strom	74 52
Software reliability	Ohba	428	Optimizing preventive service	Adams	2
•	0.1.01		Program development tool	Alberga	60
Non-impact printing	Ŧ	241	Reliability models	Ohba	428
Electrophotography technology trends Experimental drop-on-demand ink jet	Lee Lee	241 307	Dandam access manage		
print head for color printing	Lec	307	Random-access memory APA display chip	Matick	379
Flash fusing in electrophotographic	Baumann	292	Display mapping scheme	Ostapko	393
machines			<b>F,F-B</b>	<b>-</b>	• • • • • • • • • • • • • • • • • • • •
Key technologies and milestones in	Myers	234	Reliability	_	
computer output printing	Deallas	200	Computer timing analysis	Tryon	340
Multiple-nozzle ink jet printing experiment	Darling	300	Software reliability models	Ohba	428
Numerical calculation of fluid	Fromm	322	Remote sensing		
dynamics of drop-on-demand ink		3-2	Multiband image data noise	Dave	399
jets			reduction using phase relationships		
Paper material considerations for	Borch	285	Semiconductor technology		
electrophotographic printers	Crawford	276	Modeling defects	Stapper	461
Print quality measurements for electrophotographic printers	Crawlord	276	Resist profile control	Gillespie	454
Study of wave propagation in drop-on-	Bogy	314	Yield model	Stapper	xxx
demand ink jet devices	2087	J	Signal processing		
3800 Models 3 and 8: brief overview	Miller	252	Multiband image data noise	Dave	399
3800 Models 3 and 8: control	Barrera	263	reduction using phase relationships	24.0	5,,
3800 Models 3 and 8: technology	McMurtry	257			
Office machines and systems			Software reliability	Die	40
Digital data exchange—space-division	Hopner	444	Access functions Complexity measures	Ris Hall	40 15
switching			Entity-relationship diagrams	Casanova	82
Operating systems			Language implementation tool	Sowa	28
Optimizing preventive service	Adams	2	Multi-version program editor	Kruskal	74
		_	NIL programming methodology	Strom	52
Optimization	V alle	710	Optimizing preventive service	Adams	2
Interconnections in LSI Traveling salesman problem	Kelly Held	719 476	Program development tool	Alberga	60
. tarening satesinan problem	11010	4/0	Reliability models	Ohba	428

767

Spectroscopy		
Immersion tin	Kovac	726
Statistics applications		
Computer timing	Tryon	340
Optimizing software service	Adams	2
Storage systems		
Shared storage performance	Goyal	95
Surface science		
Microstructure of deposited Cu	Kim	697