Subject Index for Papers in Volume 27

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.

the paper and the names of coauthors, if any.			Failure diagnosis on LT1280 Optical testing of PC boards	Barry West	41 50
Subject	Author	Page	Computer architecture 370-XA architecture: virtual machine facilities	Gum	530
Algorithms			370-XA: architecture design	Guin	330
Carpool scheduling	Fagin	133	considerations	Padegs	198
Computing Pythagorean sums	Moler	577	370-XA: channel subsystem	v	
Generalizing Pythagorean sum			architecture	Cormier	206
computation	Dubrulle	582	801 minicomputer	Radin	237
Handwriting recognition	Lew	181	Computer architecture documentation		
VLSI sorter	Miranker	140	Computer architecture documentation		
Analytical models			documentation	Wright	257
Model for yield prediction	Dooley	59			
On Murphy's yield formula Quality level in logic chips and	Meister	545	Computer-controlled manipulators Numerical control for TCMs	Sanborn	20
modules	Cleverley	4	Twisted-pair wire bonding	Houser	598
Software-cache interaction	Voldman	164			
Tolerance to crosstalk noise Arithmetic and logical unit design	Park	432	Computer organization and design Machine organization and control		2.17
Exclusive-OR representation	Fleisher	412	program integration 801 minicomputer	Rao Radin	247 237
Channel subsystem architecture			Data-definition facilities		
370-XA: channel subsystem			SLAN-4—software specification		
architecture	Cormier	206	language	Beichter	558
Character recognition					
Handwriting recognition	Lew	181	Data structures and accessing	D1	407
Image thresholding	White	400	Relational expression optimization	Blaauw	497
Processor-based OCR	Casey	386	Database design		
Chemistry and chemical engineering			Relational expression optimization	Blaauw	497
C ¹³ NMR of solid polymers	Lyerla	302			
Electrochemical synthesis of	n	220	Design automation	17	1.40
conducting polymers Electron microscopy of	Bargon	330	Circuits as 3D structures	Koppelman	149
carbon-loaded polymers	Hanchett	348	Display technology		
Mechanical properties of polypyrrole	Tanenett	340	Color display of complex data	Farrell	356
films	Diaz	342	Image processing system		
NMR of conducting polymers	Clarke	313	architecture	Franchi	116
Polymer structure via electron			Optical-image processing inspection	Wahl	376
diffraction	Geiss	321	Perceptual color space	Santisteban	127
Coding theory			Documentation and editing		
Arithmetic codes for constrained channels	Martin	94	Computer architecture	W/	257
Fixed rate arithmetic coding	Todd	107	documentation	Wright	231
8B/10B transmission code	Widmer	440	Electrical packaging technology		
,			MLC manufacturing	Burger	11
Communications and communication			Multi-chip module test	Curtin	27
networks Arithmetic codes for constrained			Optical testing of PC boards	West	50
channels	Martin	94	Panel-drilling system	Wrenner	285
Fixed rate arithmetic coding	Todd	107	TCM testing Twisted-pair wire bonding	Pierson Houser	35 598
Interconnected token-access rings (tutorial)	Strole	481		riousei	370
Local network routing	Franaszek	464	Electromagnetic theory Tolerance to crosstalk noise	Park	432
Network architecture and				Рагк	432
implementation OSI transport in SNA	Smith François	68 452	Error control and recovery	Comfort	210
Periodic sequences for start-up	1 Tançois	434	Fault-tolerant system architecture	Comfort	219
equalization	Milewski	426	Error control codes		
Simulating non-Markovian systems	Iglehart	472	8B/10B transmission code	Widmer	440

Compilers and interpreters

801 minicomputer

Computational methods

computation

Computer applications

Computing Pythagorean sums

Generalizing Pythagorean sum

237

577

582

Radin

Moler

Dubrulle

620

Fabrication			LSI chip design automation		
MLC manufacturing	Burger	11	Integrated circuits as 3D structures	Koppelman	149
Numerical control for TCMs	Sanborn	20	•	••	
Panel-drilling system	Wrenner	285	Manufacturing technology	3.7. 4. 1	265
Twisted-pair wire bonding	Houser	598	Dynamic image analysis MLC manufacturing	McAuley	367 11
Fault-tolerant systems			Model for yield prediction	Burger Dooley	59
Fault-tolerant systems Fault-tolerant system architecture	Comfort	219	Multi-chip module test	Curtin	27
1 auti-tolerant system aremitecture	Comort	217	Numerical control for TCMs	Sanborn	20
Films			Optical testing of PC boards	West	50
Mechanical properties of polypyrrole			Panel-drilling system	Wrenner	285
films	Diaz	342	Quality level in logic chips and		
			modules	Cleverley	4
Graphics			TCM testing	Pierson	35
Color display of complex data	Farrell	356	Madaulala		
Image processing system	P I.	116	Materials Mechanical properties of polypyrrole		
architecture	Franchi Konnalman	116 149	films	Diaz	342
Integrated circuits as 3D structures Perceptual color space	Koppelman Santisteban	149	Simulation of Czochralski flow in Si	Langlois	281
r creeptual color space	Saintistevan	127	Simulation of Cacomaiski now in Si	Langiois	201
High-reliability, high-availability			Mathematics (applied)		
systems			Carpool scheduling algorithm	Fagin	133
Fault-tolerant system architecture	Comfort	219	Computing Pythagorean sums	Moler	577
•			Deflected forms of bent strips	Lee	590
Image processing			Exclusive-OR representation	Fleisher	412
Color display of complex data	Farrell	356	Generalizing Pythagorean sum		
Image thresholding	White	400	computation	Dubrulle	582
Optical-image processing inspection	Wahl	376	Ink jet squeeze tube analysis	Bugdayci	171
Perceptual color space	Santisteban	127	On Murphy's yield formula	Meister	545
System architecture	Franchi	116	Software-cache interaction	Voldman	164
Import printer technology			Measurement		
Impact printer technology Motion in impact print hammers	Hendriks	273	Optical-image processing inspection	Wahl	376
Motion in impact print naminors	Hendriks	213			
Ink jet printing			Mechanics and mechanisms	_	
Ink jet squeeze tube analysis	Bugdayci	171	Deflected forms of bent strips	Lee	590
	0,		Ink jet squeeze tube analysis	Bugdayci	171
Integrated circuit design	77		Medical electronics		
Circuits as 3D structures	Koppelman	149	Color display of complex data	Farrell	356
Modeling defect sensitivities	Stapper	549			
Interpretive-execution architecture			Microprocessor-based applications		245
370-XA architecture: virtual			Dynamic image analysis	McAuley	367
machine facilities	Gum	530	Processor-based OCR	Casey	386
*/0.1			Models and modeling		
I/O channel subsystems			Local network routing	Franaszek	464
370-XA: channel subsystem	0.	206	Model for yield prediction	Dooley	59
architecture	Cormier	206	Modeling circuit defect sensitivities	Stapper	549
I/O technologies			Simulating non-Markovian systems	Iglehart	472
Motion in impact printer hammers	Hendriks	273	Network architecture		
			Interconnected token-access rings		
Large-scale integration			(tutorial)	Strole	481
Integrated circuits as 3D structures	Koppelman	149	Network architecture and		
Modeling defect sensitivities	Stapper	549	implementation	Smith	68
VLSI sorter	Miranker	140			
Local area networks			Office machines and systems	-	
Local network routing	Franaszek	464	Processor-based OCR	Casey	386
Simulating non-Markovian systems	Iglehart	472	Operating systems		
			OSI transport in SNA	François	452
Logic design and technology					
Exclusive-OR representation	Fleisher	412	Optical character recognition		
Random-pattern LSSD logic	District and a second	265	Image thresholding	White	400
self-test	Eichelberger	265	Processor-based OCR	Casey	386
Logic design testing			Optics		
Failure diagnosis on LT1280	Barry	41	Optical-image processing inspection	Wahl	376
Random-pattern LSSD logic	•		Perceptual color space	Santisteban	127
self-test	Eichelberger	265	1 0.00ptau. voior space	Januscoan	141
TCM testing	Pierson	35	Optimization		
Logic calf test			Relational expression optimization	Blaauw	497
Logic self-test			Darformanaa analy		
Random-pattern LSSD logic self-test	Eichelberger	265	Performance analysis Software-cache interaction	Voldman	164
sen-test	Picticioei Sei	203	Software-cache interaction	VOIUIIIAII	164

621

Physics and physical chemistry Simulation of Czochralski flow in Si	Langlois	281	Tolerance to crosstalk noise 8B/10B transmission code	Park Widmer	432 440
Plant automation			G!4iC4!		
Dynamic image analysis Failure diagnosis on LT1280	McAuley Barry	367 41	Signature verification Handwriting recognition	Lew	181
D.L			Simulation		
Polymers C ¹³ NMR of solid polymers	Lucalo	302	Simulating non-Markovian systems	Iglehart	472
Electrochemical synthesis of	Lyerla	302	Simulation of Czochralski flow in Si	Langlois	281
conducting polymers	Bargon	330		C	
Electron microscopy of	Dargon	330	Sorting		
carbon-loaded polymers	Hanchett	348	VLSI sorter	Miranker	140
Mechanical properties of polypyrrole	Tunonott	5.0			*
films	Diaz	342	Spectroscopy		
NMR of conducting polymers	Clarke	313	C ¹³ NMR of solid polymers	Lyerla	302
Polymer structure via electron			NMR of conducting polymers	Clarke	313
diffraction	Geiss	321	Polymer structure via electron	a .	
			diffraction	Geiss	321
Printing technology	ъ .	171	Or at at		
Ink jet squeeze tube analysis	Bugdayci	171 273	Statistics	Meister	545
Motion in impact print hammers	Hendriks	2/3	On Murphy's yield formula	Meister	343
Programming and programming			Storage hierarchies		
languages			Software-cache interaction	Voldman	164
SLAN-4—software specification			Software-cache interaction	Voidinaii	104
language	Beichter	558	Structured programming		
B			OSI transport in SNA	François	452
Programming systems development					
Machine organization and control program integration	Rao	247	System/370 Extended Architecture		
SLAN-4—software specification	Nau	247	(370-XA)		
language	Beichter	558	370-XA architecture: virtual		
language	Delenter	556	machine facilities	Gum	530
Quality control			370-XA: architecture design		
Modeling circuit defect sensitivities	Stapper	549	considerations	Padegs	198
Quality level in logic chips and			370-XA: channel subsystem		
modules	Cleverley	4	architecture	Cormier	206
Random-pattern logic testing					
Random-pattern LSSD logic			Systems architecture and development	0 6 4	210
self-test	Eichelberger	265	Fault-tolerant system architecture	Comfort	219
sen test	Elemenoengen	203	Machine organization and control	Dan	247
Reduced-instruction-set computers			program integration Network architecture and	Rao	247
801 minicomputer	Radin	237	implementation	Smith	68
Relational databases			370-XA: architecture design	Silitii	00
Relational expression optimization	Blaauw	497	considerations	Padegs	198
Relational expression optimization	Diaauw	791	considerations	1 adogs	170
Remote sensing			Telecommunications		
Image processing system			Interconnected token-access rings		
architecture	Franchi	116	(tutorial)	Strole	481
Schoduling			Periodic sequences for start-up		
Scheduling Carpool scheduling algorithm	Fagin	133	equalization	Milewski	426
Carpoor seneduming argorithm	ragiii	133	•		
Signal processing			Virtual-machine facilities		
Periodic sequences for start-up			370-XA architecture: virtual		
equalization	Milewski	426	machine facilities	Gum	530