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- A High-Performance Bipolar LSI Counter Chip Using EFL and I²L Circuits, *Bosco W. Wong and William D. Jackson*
- A Synthesized Signal Source with Function Generator Capabilities, *Dan D. Danielson and Stanley E. Froseth*
- Viewpoints—Paul Baird on Electronic Equipment Reliability

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- Software Simulator Speeds Digital Board Test Generation, *Kenneth P. Parker*
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- Testing the Tester, *Roland H. Burger, John J. Ketchum, Scott E. Woodward, and James M. Brown*
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- Human-Engineering the Small-Business Computer, *Barry Mathis*
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- Applications Software for the Small-Business Computer, *Scott W. Y. Wang and Loyd V. Nelson*
- Capacitance and Conductance Deep-Level Transient Spectroscopy Using HP-IB Instruments and a Desktop Computer, *Leonard Forbes and Ulrich Kaempf*

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- Lutz Kristen, and Peter Aue*
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- Innovative Package Design Enhances HP 300 Effectiveness, *David A. Horine*

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- Cost-Effective Hardware for a Compact Integrated Business Computer, *Arndt B. Bergh and Kenyon C. Y. Mei*
- A Computer Input/Output System Based on the HP Interface Bus, *W. Gordon Matheson*
- A Small, Low-Cost 12-Megabyte Fixed Disc Drive, *Richard L. Smith*
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- Configuring and Launching the AMIGO/300 System, *Donald M. Wise and James C. McCullough*
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- A Friendly, Easy-to-Service Computer, *Yas Matsui and Manmohan Kohli*
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- Controlling Electromagnetic Interference Generated by a Computer System, *Daniel T.Y. Wong*
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Expanding Logic Analyzer Capabilities by Means of the HP-IB,
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Brubaker

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HP Interface Bus
Four Color Plotters Enhanced for Unattended Operation, Majid
Azmoon, Randy A. Coverstone, and Richard M. Kemplin

PART 2: Subject Index

Month/Year	Subject	Model
A		
Feb. 1979	Accelerometer, hybrid	
Apr. 1979	Accounts receivable,	HP 250
May 1979	Address extension chip	
Sept. 1979	Air flow measurements in the pulmonary lab	47804S
July 1979	AMIGO/300 operating system	HP 300
Nov. 1979	Amplitude modulation measurements	8901A
May 1979	Assembly language, desktop computer	9835A
July 1979	Asynchronous data communications controller	31264A
Mar. 1979	Automatic circuit board testing	DTS/70,3060A
Dec. 1979	Automatic paper advance, X-Y plotter	9872S,7221S,7220S
B		
June 1979	BASIC, business computer	HP 300
Apr. 1979	BASIC, business computer	HP 250
May 1979	BASIC, desktop computer	9835A
Jan. 1979	Battery-powered universal counter	5314A,5315A
Jan. 1979	Bipolar integrated circuit chip, MRC	
Mar. 1979	Board test language	9825A/3060A
Mar. 1979	Board testing, automatic	DTS/70,3060A
Dec. 1979	Bus extender, fiber optic	12050A
Aug. 1979	Bus extender, telephone compatible	37201A
Apr. 1979	Business computer, entry level	HP 250
June 1979	Business computer	HP 300
July 1979	Business computer	HP 300
Sept. 1979	Business computer	HP 3000 Series 33
C		
Dec. 1979	Calculator, handheld	HP-34C
Apr. 1979	Capacitance DLTS	
Dec. 1979	Capacitance/voltage measurements	4140A
Mar. 1979	Circuit-board testing, automatic	DTS/70,3060A
Oct. 1979	Communications, data analyzer	1640A
June 1979	Computer, business	HP 300
July 1979	Computer, business	HP 300
May 1979	Computer, desktop	9835A
July 1979	Computer power supply	63312F
Apr. 1979	Computer, small-business	HP 250
Sept. 1979	Computer system, low-cost general-purpose	HP 3000 Series 33
Apr. 1979	Conductance DLTS	
Feb. 1979	Control system, linear step motor	7225A
May 1979	Controller, desktop	9835A

Jan. 1979	Counter chip, multiple-register	
Jan. 1979	Counter, universal, 100-MHz, low-cost	5314A
Jan. 1979	Counter, universal, 100-MHz, reciprocal	5315A/B
Dec. 1979	Current measurements, picoampere	4140A

D

Apr. 1979	Data base management	HP 250
June 1979	Data base management	HP 300
Oct. 1979	Data communications analyzer	1640A
Apr. 1979	Deep-level transient spectroscopy (DLTS)	
May 1979	Desktop computer	9835A
Feb. 1979	Digital LCR meters, multifrequency	4274A/75A
Aug. 1979	Digital pattern generator	8170A
Feb. 1979	Digital X-Y plotter	7225A
Nov. 1979	Discriminator, charge count	8901A
Aug. 1979	Discriminator with controllable slope	8566A
July 1979	Disc drive, Winchester type	HP 300, 7910K
June 1979	Display, integrated	HP 300
July 1979	Display, integrated	HP 300
Sept. 1979	Displays, X-Y, selectively blanked	1741A/002

E

Sept. 1979	Electromagnetic interference suppression, computer	HP 3000 Series 33
May 1979	EMI design	9835A
Jan. 1979	Emitter function logic (EFL)	
Dec. 1979	Equation solver, handheld calculator	HP-34C
Dec. 1979	Extender, HP Interface Bus, fiber optic	12050A
Aug. 1979	Extender, HP Interface Bus, telephone	37201A

F

Mar. 1979	FASTRACE	DTS/70
Mar. 1979	Fault isolation in analog circuit boards	3060A
Mar. 1979	Fault isolation in digital circuit boards	DTS/70
Dec. 1979	Fiber optic HP-IB link	12050A
Nov. 1979	FM discriminator, charge count	8901A
Aug. 1979	FM discriminator, controllable slope	8566A
Nov. 1979	Frequency measurements	8901A
Jan. 1979	Frequency measurements to 100 MHz	5314A,5315A/B
Nov. 1979	Frequency modulation measurements	8901A
Jan. 1979	Function generator/synthesizer, 0 to 21 MHz	3325A

G

July 1979	General I/O channel	31262A
Aug. 1979	Generator, logic pattern	8170A

May 1979 Generator, pulse, programmable 8160A

H

Dec. 1979 HP-IB extender, fiber optic 12050
Aug. 1979 HP-IB extender, telephone 37201A
Oct. 1979 HP-IB interface for logic analyzers 1610A/003,1615A/001

I

Apr. 1979 IMAGE/250 HP 250
June 1979 IMAGE/300 HP 300
Mar. 1979 In-circuit board testing 3060A
Aug. 1979 Instrument systems, HP-IB extender for 37201A
Jan. 1979 Integrated-circuit chip, bipolar, MRC
June 1979 Integrated display system HP 300
July 1979 Integrated display system HP 300
Jan. 1979 Integrated injection logic (I²L)
Dec. 1979 Interface bus extender, fiber optic 12050A
Aug. 1979 Interface bus extender, telephone 37201A
Apr. 1979 Inventory control HP 250

L

June 1979 Language subsystem HP 300
Feb. 1979 LCR meters, multifrequency 4274A,4275A
Feb. 1979 Linear step motor plotter 7225A
Oct. 1979 Logic analyzers, HP-IB interfaces for 1610A/003,1615A/001
Aug. 1979 Logic pattern generator 8170A
Sept. 1979 Lung function measurements 47804S

M

Apr. 1979 Manufacturing reporting HP 250
Oct. 1979 Microprocessor lab 5036A
Aug. 1979 Microwave spectrum analyzer 8566A
Nov. 1979 Modulation analyzer 8901A
Oct. 1979 Monitor/simulator/analyzer for data communications 1640A
Jan. 1979 Multiple-register counter (MRC) chip
Sept. 1979 Multiprogramming executive operating system HP 3000 Series 33

N

Oct. 1979 Network analyzer, 4 to 1300 MHz 8754A

O

July 1979 Operating system, AMIGO/300 HP 300
Sept. 1979 Operating system, MPE-III HP 3000
Apr. 1979 Order entry HP 250
Sept. 1979 Oscilloscopes, selectively blanked X-Y displays 1741A/002
Aug. 1979 Oscillator, local, synthesized sweeping 8566A

P

Dec. 1979 Paper advance,automatic X-Y plotter 9872S,7221S,7220S
Jan. 1979 Period measurements 5314A,5315A/B
Nov. 1979 Phase modulation measurements 8901A
Dec. 1979 Picoammeter/dc voltage source synchronized 4140A
Feb. 1979 Plotter, digital X-Y 7225A
Dec. 1979 Plotter, X-Y, with paper advance 9872S,7221S,7220S
Sept. 1979 Pneumotach for pulmonary measurements 47804S
Jan. 1979 Portable universal counters 5314A,5315A
Nov. 1979 Power measurements 8901A
July 1979 Power supply, computer 63312F
Oct. 1979 "Practical Microprocessors" (coursebook) 5036A
May 1979 Pulse generator, 50 MHz, programmable 8160A
Aug. 1979 Pulse generator, logic patterns 8170A
Sept. 1979 Pulmonary function measurements, automated 47804S

R

Jan. 1979 Ramp generator, precision; synthesizer/function generator 3325A
Jan. 1979 Ratio measurements 5314A,5315A/B
Dec. 1979 Recorder, X-Y, with paper advance 9872S,7221S,7220S
Jan. 1979 Reliability in electronic equipment
Sept. 1979 Remote computer troubleshooting HP 3000 Series 33
Nov. 1979 RF modulation measurements 8901A
Oct. 1979 RF Network Analyzer 4 to 1300 MHz 8754A
Dec. 1979 Root finder, handheld calculator HP-34C
June 1979 RPG, business computer HP 300

S

Apr. 1979 Sales analysis HP 250
Apr. 1979 Semiconductor process development, DLTS system
Oct. 1979 Serial data analyzer 1640A
June 1979 Shipping container HP 300
Nov. 1979 Signal generator 11715A
Jan. 1979 Signal source, programmable synthesizer/function generator, 0 to 21 MHz 3325A
June 1979 Silicon-on-sapphire processor HP 300
July 1979 Silicon-on-sapphire processor HP 300
Dec. 1979 SOLVE: equation solver HP-34C
Sept. 1979 SOS processor HP 3000 Series 33
Mar. 1979 Simulator for digital board testing, TESTAID DTS-70
Nov. 1979 Source, AM/FM 11715A
Aug. 1979 Source, logic pattern 8170A
May 1979 Source, pulses, programmable 8160A
Aug. 1979 Spectrum analyzer, 100 Hz to 22 GHz 8566A
Feb. 1979 Step motors, linear 7225A
Jan. 1979 Synthesis, frequency, fractional-N 3325A
Jan. 1979 Synthesizer/function generator, 0 to 21 MHz 3325A
May 1979 System 35, 9800 Series 9835A
Aug. 1979 Systems, HP-IB extender for 37201A
Dec. 1979 Systems, HP-IB extender for 12050A

T

Mar. 1979 TESTAID program generator for digital board testing DTS-70
Jan. 1979 Time-interval measurements 5314A,5315A/B
Sept. 1979 Triggered X-Y oscilloscope displays 1741A/002
Mar. 1979 Troubleshooting circuit boards automatically DTS/70-3060A
Sept. 1979 Troubleshooting, computer, remote HP 3000 Series 33
Oct. 1979 Troubleshooting, microprocessor, training 5036A

U

Jan. 1979 Universal counter, 100-MHz, low-cost 5314A
Jan. 1979 Universal counter, 100-MHz, reciprocal 5315A/B

V

Nov. 1979 VCO measurements 8901A
July 1979 Virtual memory operating system HP 300
Mar. 1979 Virtual memory for digital board tester DTS-70

X

Sept. 1979 X-Y displays, selectively blanked 1741A/002
Feb. 1979 X-Y plotter 7225A
Dec. 1979 X-Y plotters with paper advance 9872S,7221S,7220S

Y

Aug. 1979 YIG-tuned mixer 8566A

Z

PART 3: Model Number Index

Model	Product	Month/Year	7220S	Plotter	Dec. 1979
HP-34C	Calculator	Dec. 1979	7221S	Plotter	Dec. 1979
System 35	Desktop Computer (9835A)	May 1979	7225A	Plotter	Feb. 1979
DTS-70	Digital Test System	Mar. 1979	7910K	Disc Drive	July 1979
HP 250	Small-Business Computer	Apr. 1979	8160A	Programmable Pulse Generator	May 1979
HP 300	Computer	June 1979	8170A	50-MHz	
		July 1979	8566A	Logic Pattern Generator	Aug. 1979
1610A/003	Logic State Analyzer	Oct. 1979	8754A	Spectrum Analyzer	Aug. 1979
	with HP-IB			100-Hz-2.5 GHz/2-22 GHz	
1615A/001	Logic Analyzer with HP-IB	Oct. 1979	8901A	Network Analyzer,	Oct. 1979
1741A/002	Oscilloscope	Sept. 1979	9835A/B	4 to 1300 MHz	
	(triggered X-Y display)		9872S	Modulation Analyzer	Nov. 1979
HP 3000, Series 33	Computer System	Sept. 1979	11715A	Desktop Computer	May 1979
3060A	Board Test System	Mar. 1979	12050A	Plotter	Dec. 1979
3325A	Synthesizer/Function Generator	Jan. 1979	31262A	AM/FM Test Source	Nov. 1979
4140A	pA Meter/Dc Voltage Source	Dec. 1979	31264A	Fiber Optic HP-IB Link	Dec. 1979
4271A/B	LCR Meter (in DLTS System)	Apr. 1979		General I/O Channel	July 1979
4274A	LCR Meter, 100 Hz-100 kHz	Feb. 1979		Asynchronous Data	July 1979
4275A	LCR Meter, 10 kHz-10 MHz	Feb. 1979	37201A	Communications Controller	
5036A	Microprocessor Lab	Oct. 1979	47804A/S	HP-IB Extender	Aug. 1979
5314A	100-MHz Universal Counter	Jan. 1979	63312F	Pulmonary Measurement	Sept. 1979
5315A/B	100-MHz Universal Counter	Jan. 1979		Systems	
				Power Supply	July 1979

PART 4: Author Index

Author	Month/Year	Author	Month/Year	Author	Month/Year
A		Groff, James R.	June 1979	N	
Amin, Dilip A.	July 1979	Groves, William A.	Mar. 1979	Naegeli, Andrew H.	Nov. 1979
Aue, Peter	May 1979	Guest, David H.	Aug. 1979	Narimatsu, Yoh	Feb. 1979
				Nelson, David L.	Sept. 1979
B		H		Nelson, Loyd V.	Apr. 1979
Babiarz, Alec J.	Feb. 1979	Ha, Eric P.L.	June 1979	Noguchi, Hitoshi	Dec. 1979
Baird, Paul	Jan. 1979	Hallissy, Robert M.	May 1979	Nygaard, Richard A., Jr.	Oct. 1979
Baskins, Douglas L.	Mar. 1979	Hamilton, A. Peter	Apr. 1979		
Becker, John C.	May 1979	Hanson, Delon C.	Dec. 1979	P	
Bergh, Arndt B.	July 1979	Hetrick, Michael V.	Apr. 1979	Paré, Alan T.	June 1979
Blais, Maurice R.	Sept. 1979	Holl, James H.	Sept. 1979	Parker, Kenneth P.	Mar. 1979
Blankenship, Karl M.	Jan. 1979	Horine, David A.	June 1979	Peery, Dennis L.	Apr. 1979
Bronson, Barry	Oct. 1979	Howard, P. Guy	Sept. 1979	Peikes, Wendy	June 1979
Brown, James M.	Mar. 1979	Hübner, Ulrich	Aug. 1979		
Brubaker, Leslie E.	Nov. 1979	Hüttemann, Werner	May 1979	R	
Burger, Roland H.	Mar. 1979			Riebesell, Günter	Aug. 1979
		J		Riley, Russell B.	Nov. 1979
C		Jackson, William D.	Jan. 1979	Robinson, Claude, Jr.	Sept. 1979
Carpenter, Ralph L.	July 1979			Royce, William G.	Feb. 1979
Cheng, Tu-Ting	June 1979	K		S	
Chin, Bessie W.C.	Feb. 1979	Kaempff, Ulrich	Apr. 1979	Schlotzhauer, Ed O.	Mar. 1979
Chu, Peter	Feb. 1979	Kahan, William	Dec. 1979	Shaffer, Dyke T.	May 1979
Chumbley, Sandy L.	May 1979	Ketchum, John J.	Mar. 1979	Slater, Michael	Oct. 1979
Ciardella, Robert L.	Feb. 1979	Knoll, Alfred F.	July 1979	Smith, Richard L.	July 1979
Clark, George R.	June 1979	Kohli, Manmohan	Sept. 1979	Sparks, Stephen T.	Aug. 1979
Clegg, Frederick W.	June 1979	Kovalick, May Y.	June 1979	Stone, Peter S.	Mar. 1979
Cobb, Terry R.	Feb. 1979	Kriegel, Thane	July 1979		
Crook, David T.	Mar. 1979	Kristen, Lutz	May 1979	T	
				Taylor, Phillip N.	June 1979
D		L		Tsai, Lung-Wen	Feb. 1979
Danielson, Dan D.	Jan. 1979	Lamy, John C.	Aug. 1979		
David, Frank K.	Aug. 1979	Lange, Kenneth L.	Aug. 1979	U	
		Lingane, Paul J.	Nov. 1979	Ujvarosy, Damon R.	May 1979
E		Linkwitz, Siegfried H.	Aug. 1979		
Edwards, Allen P.	Nov. 1979			W	
Edwards, Richard C.	Sept. 1979	M		Wang, Scott W.Y.	Apr. 1979
Erdmann, Robert E., Jr.	Oct. 1979	MacNeil, Norman H.	Feb. 1979	Ward, Michael J.	Jan. 1979
		Maeda, Kohichi	Feb. 1979	Wickliff, Robert G., Jr.	Oct. 1979
F		Maiorca, Philip P.	Feb. 1979	Wilson, Michael D.	Jan. 1979
Fanton, John L.	Sept. 1979	Marschke, Norman D.	July 1979	Wise, Donald M.	July 1979
Fenoglio, John A.	Feb. 1979	Martin, Larry R.	Aug. 1979	Wong, Bosco W.	Jan. 1979
Fiedler, Francis F.	Mar. 1979	Masters, Lewis W.	Jan. 1979	Wong, Daniel T.Y.	Sept. 1979
Firooz, Kamran	Mar. 1979	Matheson, W. Gordon	July 1979	Wood, Brian M.	Mar. 1979
Forbes, Leonard	Apr. 1979	Mathis, Barry	Apr. 1979	Woodward, Scott E.	Mar. 1979
Forbes, V. DeLloyd	Apr. 1979	Matsui, Yas	Sept. 1979		
Froseth, Stanley E.	Jan. 1979	McCullough, James C.	July 1979	Z	
		McDermid, John F.	Mar. 1979	Zellers, James R.	Oct. 1979
G		Mei, Kenyon C.Y.	July 1979		
George, David M.	Jan. 1979	Meyer, Gerald L.	Apr. 1979		
Grady, Robert B.	Dec. 1979	Moravek, Bernd	Aug. 1979		