

SEMI-ANNUAL INDEX OF ARTICLES

All material is listed under one of the following subjects:

Circuits, Mathematical Analysis	Microwaves
Communications, Navigation, Guidance and Interference	Military, R & D
Components (See Microwaves, Semiconductors)	Missiles & Space
Computers, Data Processing, and Auxiliary Devices	Power Sources
Consumer Electronics	Production, Processes and Cooling
Human Factors	Reliability
Measurements, Instruments, Test Equipment	Semiconductors, Solid-State Devices
Microelectronics	

Circuits, Mathematical Analysis

Chebyshev vs. ButterworthPT p89 Jan 6
 Bipolar video gate needs no balancing Circuit
IFD p86 May 11
 Circuit prevents pulse interruption or chatter
IFD p106 March 16
 Circuits "grow" metallic whiskers to repair
 breaksNEWS p18 Feb 3
 Comparator circuit simplifies linear voltage con-
 trol of repetition periodIFD p66 June 22
 Complimentary output stage provides short cir-
 cuit protectionIFD p71 June 22
 Corrective network permits latching with fast
 pulsesIFD p72 June 8
 Dc phase splitter adds voltage gain
IFD p46 Feb 3
 Designing resistor divider networks for maxi-
 mum economyART p84 Feb 17
 Detector triggers on negative slopes
IFD p82 Jan 6
 Differential amplifier provides agc control
IFD p60 March 21
 Equalizer for 75-ohm cables reduces phase re-
 tardationIFD p71 March 3
 Extending an operational amplifier's bandwidth
 to 50 McART p50 May 25
 FM preamp uses VHF ferrite transformer
IFD p51 Feb 3
 Failure detection monitors 3-phase power sup-
 plyDD p44 April 13
 Fast rise times from slow circuits
IFD p93 April 27
 Finding transfer functions from pulse responses
ART p72 March 16
 Free-running multi has sure-fire starting
IFD p80 Jan 6

Galvanometer amplifier has greater sensitivity
IFD p90 Feb 17
 Generator permits infinite pulse width variation
IFD p69 June 22
 Heart oscillator implanted; devices take finger-
 printsNEW p26 Feb 17
 Lockout-circuit operates with single line input
IFD p72 March 3
 Modulated oscillator makes simple FM source
IFD p72 March 30
 Monostable multivibrator has a sharp rise time
IFD p88 Feb 17
 More on maximally flat delay networks
PT p101 May 11
 Multivibrator switches with supply voltage
 changeIFD p74 April 13
 Network charts simplify calculations
ART p80 Feb 17
 One capacitor controls multivibrator frequency
IFD p84 May 11
 Overload indicator utilizes inexpensive neon bulb
IFD p74 June 8
 Phase indicator shows direction of rotation
IFD p65 March 2
 Photo multiplier filter adaptable over wide range
IFD p73 April 13
 Pulse circuit with wide duty cycle controls motor
IFD p78 May 11
 Pulse comparator combines versatility, low cost
IFD p60 March 2
 Pulse director, random, employs system com-
 ponentsIFD p72 May 25
 Pulse generator cuts circuit delay time
IFD p68 May 25
 Pulse generator gives low frequency output
IFD p79 Jan 20

Pulse generator time-adjustable, combines uni-
 junction, Zener SCRIFD p68 May 25
 Pulsed-video amplifier limits without diodes
IFD p63 April 13
 Recording tape tunes RF transformer coil
IFD p88 Jan 6
 Reducing arithmetic in gain measurements
IFD p52 Feb 3
 Regulator is designed using minimum power
IFD p70 March 30
 Relay circuit delivers delayed pulse output
IFD p108 March 16
 Ring counter sets its initial state
IFD p92 April 27
 RF amplifiers: solving the stability problem-part
 2ART p72 Jan 6
 Schmitt trigger output independent of load cur-
 rentIFD p104 March 16
 Self-adjusting circuit varies threshold level
IFD p82 May 11
 Self-start free running multi provides low-cur-
 rent back-biasIFD p71 May 25
 Selective circuit provides high pulse regeneration
IFD p103 March 16
 Shift that PhasePT p67 March 2
 Shifting divider voltages with respect to ground
IFD p73 May 25
 Simple bidirectional clipper has small transfer
 zoneIFD p68 June 22
 Spiking switching spikes in a chopper amplifier
ART p42 May 25
 Three-step method sets pots accurately
IFD p83 Jan 20
 Using barreters for stabilizing an output stage
AN p68 June 8
 Variable bandwidth from a notch filter
IFD p90 April 27
 Wide-range trigger compares absolute values
IFD p85 Jan 6

Departments are identified by the following keys:

AN	Application Note	GA	German Abstract
ART	Article	IFD	Idea For Design
BFD	Background for Decision	PF	Product Feature
DD	Design decision	PT	Practical Theorist
DYF	Designing Your Future	RT	Russian Translation
ED	Engineering Data	SR	Staff Report
NEWS	ELECTRONIC DESIGN News	T	Transistor Data Chart

Communications, Navigation Guidance and Interference

Airborne data collections may aid RFI
 predictionNEWS p6 May 25
 All-transistorized video telephone undergoing
 testsNEWS p12 May 25

INDEX OF ARTICLES

- Another link in military communications net
.....NEWS p6 March 30
- Auction-decision discriminator could improve
PFMNEWS p12 Feb 17
- Autopilot stabilizes Navy's new hydrofoil
.....NEWS p6 Jan 20
- Carrier-level system controls 250-watt trans-
mitterDD p78 March 16
- Color radar sets improve tracking of moving
targetsNEWS p24 Jan 6
- Digital data communications .SR p36 April 27
- Error control: a critical design factor
.....SR p46 April 27
- Guidance systemsSR p50 Jan 6
- High resolution sonar provides TV bottom photos
.....NEWS p35 March 16
- Matching networks for high power transmitters
.....ART p38 April 13
- Multiplexing: juggling low-speed messages
.....SR p50 April 27
- Navy seeks all-purpose avionics display system
.....NEWS p12 Jan 6
- Optical-heterodyne radar to use three lasers in
tandemNEWS p16 March 30
- Peak voltage indicator solves tuning problem
.....IFD p84 Jan 20
- Sixty-second timer allows transmitter warm-up
.....IFD p82 Jan 20
- Terminals & computers: the growing bends
.....SR p37 April 27

Components (See Microwaves & Semiconductors)

- Adjustable time delay for rotary switches
.....IFD p72 April 13
- Designing hardened equipment: several methods
are usefulSR p46 June 8
- EL devices light up many new displays
.....NEWS p6 April 13
- Ferreed magnets of high remanence in phone ex-
changeNEWS p36 March 16
- How important are component tolerances?
.....ART p60 June 22
- Measuring the delay times of neons
.....ART p34 March 30
- Multi-core transformers boast bandwidth
.....ART p30 Feb 3
- Oscilloscope preamplifier displays quick recovery
.....PF p172 May 11
- Photomultiplier with high time resolution
.....RT p90 May 11
- Radiation environment and component selection,
TheSR p36 June 8
- Radiation-resistant equipment-design data &
guidelinesSR p35 June 8
- Reed switches reduce power converter cost
.....IFD p80 May 11
- Servo-modification improved dynamic impedance
.....IFD p48 Feb 3
- Simplifying resolver-chain design with matrix
notationART p28 March 2
- Solid-state multiplier uses magnetoresistors
.....PF p140 April 13

- Tests and qualifications: difficult at best
.....SR p52 June 8
- Thermistors & their useGA p96 May 11
- Transducer, solid-state power factor
.....ART p56 May 25
- Two ultrasonic transducers use cadmium-sulfide
.....NEWS p25 April 13

Computers, Data Processing, and Auxiliary Devices

- Accurate binary levels in a clamped circuit
.....IFD p91 April 27
- Aerospace computer using integrateds is all-
modularizedNEWS p32 March 16
- Analogy-computer device can solve Poisson
equationsNEWS p24 Feb 17
- Analog multiplier may evolve from fluid com-
ponentsNEWS p25 Feb 17
- Complementary flip-flops improve bistable per-
formanceART p50 May 11
- Complementary transistors reduce exclusive OR
sizeIFD p102 March 16
- Computer complex to speed Air Force document
serviceNEWS p10 April 27
- Computer control facilities check for instrumen-
tationNEWS p28 June 8
- Computer memoriesSR p53 Jan 6
- Datec modulation reduces delta pulse transmis-
sionNEWS p32 April 27
- Desk-type computer is inexpensive and easy to
operatePF p142 Jan 20
- Digital data communications .SR p36 April 27
- Digital data link: aviation's new horizon
.....NEWS p6 Feb 3
- Digital deflection of laser promises display, stor-
ageNEWS p18 Feb 17
- Duobinary coding used in 2400-bps data
transmissionNEWS p22 Jan 20
- Error control: a critical design factor
.....SR p46 April 27
- Gas discharge tube a useful digital tool
.....IFD p80 May 11
- Gated complement flip-flop is designed econom-
icallyIFD p88 Feb 17
- How important are component tolerances?
.....ART p60 June 22
- Illuminated spots improve digital read out
.....IFD p70 June 8
- Image processor may lead to automatic recog-
nitionNEWS p12 March 30
- Logic converter keeps time with the clock
.....IFD p64 March 2
- Logic systemsSR p34 Jan 6
- Multiplexing: juggling low-speed messages
.....SR p50 April 27
- Next IBM line to be modular & use DTL
.....NEWS p12 April 27
- Novel comparison-counter logic is fast, inexpen-
siveIFD p100 March 16
- Operational amplifier provides immediate over-
load recoveryIFD p75 June 8
- Photograph-to-map converter uses analog com-
puterNEWS p11 April 27
- Plated-wire stores inch toward computers
.....NEWS p6 April 27

- Print reader scans variety of type on "undoc-
tored" pageNEWS p22 Jan 6
- Propagation-type A/D converters are fastest
.....ART p64 April 27
- Self-latching exclusive-OR simplifies digital cir-
cuit designIFD p84 Jan 6
- Sheffer stroke logic for easier NAND design
.....ART p46 May 11
- Sixteen data channels multiplexed on tape in
real timeNEWS p30 March 16
- Square-wave ON time shrinks size of computer
.....IFD p91 Feb 17
- Terminals & computers: the growing bends
.....SR p37 April 27
- 36,000-lpm output, new memories among displays
at SJCCNEWS p13 May 11
- Univac delivering small & medium line of com-
putersNEWS p16 April 27
- Versatility gets big play in tape equipment
.....NEWS p12 May 11
- Will spacecraft stabilization go digital?
.....NEWS p6 Jan 6
- Written message carried by phone displayed visu-
allyNEWS p30 April 27

Consumer Electronics

- Compensating for two type of CRT distortion
.....DD p62 May 11
- Eliminating interlace lines in TV receivers
.....DD p46 April 13
- Europe & Britain to seek a standard color video
systemNEWS p25 April 27
- TV staircase generator uses inexpensive com-
ponentsIFD p46 Feb 3
- Transistor auto ignition uses standard coil
.....IFD p83 May 11

Human Factors

- Are planning networks for you?
.....ART p46 May 25
- Desk-top technical information filing system, a
.....DYF p138 June 22
- Engineers & incentive contracts
.....EDITORIAL p41 Feb 17

Measurements, Instruments, Test Equipment

- Accurate measurement of delay-line time
.....IFD p90 Feb 17
- Conventional scopes give delayed sweeps
.....IFD p78 May 11
- Curve tracer adapter shows nanoampere leakage
.....IFD p86 Jan 6
- Electroluminescence indicates frequency
.....IFD p52 Feb 3
- Micro/ScopeNEWS p64 May 25
- Multivibrator adapted as frequency standard
.....IFD p94 Feb 17
- One shot triggers scope for single sweep
.....IFD p82 Jan 6
- Oscilloscope writes at 4000 cm/Msec
.....PF p90 June 22
- Put FETs to work in electrometers
.....DD p56 May 11
- Tunable filters improve VLF spectrum analyzers
.....DD p76 April 27



for sale... now

Raytheon's growing family of ceramic-metal tubes now includes the 8167/4CX300A, 4CX125C, 4CN15A, 4CX250K and their 26.5 volt heater versions. These compact types are designed and manufactured to deliver outstanding, reliable performance under conditions of high temperature and severe shock and vibration. And to make sure that all of your future production needs will be fulfilled, Raytheon is planning to add other important types to its line.

For complete technical data and sales information please write Raytheon Company, Industrial Components Division, 55 Chapel Street, Newton, Massachusetts 02158. For small order or prototype requirements, see your local Raytheon franchised distributor.

RAYTHEON

Voltmeter provides 2% accuracy with 1 nanovolt resolutionPF p92 June 8

Microelectronics

Adapting conventional VHF equipment to molecular electronicsSR p44 Feb 17
 Aerospace computer using integrateds is all-modularizedNEWS p32 March 16
 Basics of integrated circuit componentsART p50 April 13
 Black-boxing your linear integrated circuitART p74 June 22
 Case history: integrating a NOR circuitART p38 March 2
 Chip-type micromin PNP switch is for TF and related microcircuitsPF p54 March 2
 Computer microcircuit displays low dissipationPF p84 June 8
 Conference points to resurgence of thin-film methodsNEWS p22 May 11
 Converting a pulse modulator into an integrated chipSR p60 Feb 17
 Custom-built DTL circuits available off the shelfPF p92 March 16
 Designing inductors for thin-film applicationsSR p52 Feb 17
 Fabricate your own thin-film oscillatorART p52 March 30
 Getting maximum circuit yield from silicon wafersART p84 March 16
 How to optimize microelectronic packagingART p60 May 25
 Improved Minuteman: a vote of confidenceNEWS p44 March 2
 Infrared looks into integratedsNEWS p70 May 11
 Integration approaches: dice & detoursNEWS p58 March 30
 Interconnection emphasis: flat pack mountingNEWS p86 April 27
 Isolation advances may end parasitic plagueART p80 June 22
 J-K flip-flop reduces circuit complexityART p62 March 30
 Micro/ScopeART p71 May 11
 Microcircuit design for the circuit engineerART p60 Jan 6
 Microcircuit design for the circuit engineer—Part IIART p70 Jan 20
 Microcircuits steal 1964 IEEE showNEWS p12 April 13
 Microelectronic makers extend power frequency limitsNEWS p58 April 13
 Microelectronics comes of ageEDITORIAL p35 Jan 20
 Microelectronics reinforces bid for avionicsNEWS p6 June 8
 Micrologic integrated circuits go commercial at lower pricePF p82 June 8
 Microwatt electronicsSR p38 Jan 6
 Minuteman microcircuits don civilian garbPF p64 March 30
 Monolithic DTL circuits available off the shelfPF p82 June 22
 Monolithic or hybridSR p66 Feb 17

Navy microcircuit computer among the most powerfulNEWS p10 March 30
 New units test merit of thin films on monolithicsNEWS p12 May 25
 Probe feedback controls microelectronic solderingART p88 March 16
 Shift registers simplify countingAN p56 April 13
 Standards pushed for microelectronic packagingNEWS p86 March 16
 Stress is on opto-electronics microcircuitsNEWS p6 March 16
 Structural adhesives reduce hearing aid sizePR p90 March 16
 Testing integrated circuitsART p66 May 11
 Thermal test block for integrated circuits ranges from -80 to 22 FPF p60 April 13
 Thin-film power supply for cryogenic memoriesNEWS p6 May 11
 Three ways to integrate a frequency dividerART p78 June 8
 Using integrateds as feedback amplifiersART p49 March 2
 Using MOS transistors in integrated circuitsART p80 April 27
 Will molecular structures make microcircuit inductors?ART p82 March 16
 Working thermal circuits into thin-film substratesDD p72 April 27

Microwaves

Cw laser tracker set for precise missile rangingNEWS p14 May 11
 Chelate lasers: second thoughts a year laterNEWS p16 Feb 3
 Combination radar for civil aircraft works at Ku bandNEWS p32 Feb 17
 Conductive paints aid microwave performanceIFD p94 April 27
 Corner reflector allows light beam voice messagesNEWS p22 June 8
 Digital deflection of laser promises display, storageNEWS p18 Feb 17
 Electron-resonance oscillator gives milliwatts at 9 GcNEWS p22 April 27
 Fast switches generate and control high-power, short duration pulsesNEWS p22 June 22
 Four devices using hot-carrier effect operate to 210 GcNEWS p12 May 25
 Giant laser pulses attained with help of metallo-organicsNEWS p18 April 27
 InfraredSR p44 Jan 6
 Ionized-gas lasers emit cw and pulsed visible, UV lightNEWS p15 June 22
 Laser roundup: far-IR, yttrium devices unveiledNEWS p16 Feb 17
 Lower side-lobes for in-phase antenna arraysRT p92 May 11
 Optimizing tracking-system feedsSR p52 Jan 20
 Plasma tubesSR p52 Jan 6
 Pulsed-gas lasers: new research bandwagon?NEWS p6 Feb 17
 Quasi-optics research takes a practical turnNEWS p12 June 22

ON READER-SERVICE CARD CIRCLE 56

INDEX OF ARTICLES

Rectangular-filter approach to remote tuning
.....ART p34 March 2

Simplified approach to Cassegrain antennas, a
.....SR p44 Jan 20

Stable 35-Gc radar at MIT to use 12 w to measure moon
.....NEWS p28 Jan 6

Tiny cadmium cell, maser magnetometer among new devices
.....NEWS p28 March 16

Tunable lasers
.....SR p47 Jan 6

Two Pockels cells raise efficiency of laser Q-switch
.....NEWS p30 May 11

Voice modulation works well on 2-Mm carrier
.....NEWS p12 June 8

Waveguide system matching aided by ferromagnetic balls
.....IFD p70 April 13

Zig-a-log array: ideal feed for parabolic reflectors
.....SR p38 Jan 20

Military, R & D

Designing hardened equipment: several methods are useful
.....SR p46 June 8

New light on Neptune's realm SR p32 June 22

Radiation environment and component selection, the
.....SR p36 June 8

Radiation-resistant equipment-design data & guidelines
.....SR p35 June 8

Tests and qualifications: difficult at best
.....SR p52 June 8

Three major oceanic systems illustrate today's technology
.....SR p38 June 22

Missiles & Space

Civil navigation satellites technically feasible
.....NEWS p12 Jan 20

EMP: can it short-circuit our defenses?
.....NEWS p6 March 2

Generators supply hundreds of amps for cryogenic coils
.....NEWS p28 April 27

Nimbus to carry array of three vidicon cameras
.....NEWS p14 March 16

Pentagon stresses missile, A-test detection in space
.....NEWS p16 March 2

Power Sources

Cryogenic cooler operates maintenance-free for 2500 hours
.....PF p90 June 8

Latest Sycom gets 10-Mc transponder n-on-p solar cells
.....NEWS p12 May 25

New power sources withstand space radiation
.....NEWS p6 June 22

Switching power supply regulators for greater efficiency
.....ART p48 June 22

Thermoelectric space panels yield 20 watts per panel
.....NEWS p28 April 13

Production Processes and Cooling

How much better is forced-air cooling?
.....ART p62 March 16

Predicting ambient temperature for enclosed equipment
.....ART p40 Feb 3

Reliability

Reliability men revise methods as military incentive contacts gain
.....NEWS p12 Feb 3

Tests of NEAR system a success despite some RFI
.....NEWS p26 March 16

Theory of probability
.....BFD p91 Jan 6

When is a life test truly accelerated
.....ART p64 Jan 6

Semiconductors, Solid-State Devices

Audio
.....SR pT6 May 25

Avalanche circuits are more versatile than you think
.....ART p56 June 8

Avoiding storage-time punch-through in saturated push-pull circuits
.....ART p72 Feb 17

Better SCR phase control in control systems
.....ART p34 Feb 3

Bilateral SCR lets designers economize on circuitry
.....AN p74 Jan 20

Capacitor charge sets transistor bias point
.....IFD p105 March 16

Compact servoamp has fast response
.....DD p96 Feb 17

Complementary flip-flops improve bistable performance
.....ART p50 May 11

Constructing a 30-w, 50 Mc power amplifier
.....AN p98 March 16

Design approach to transistorized voltage-control crystal oscillators
.....ART p22 March 2

Designing a negative-resistance-element circuit breaker
.....ART p48 March 16

Diodes replace step-up transformer
.....IFD p71 April 13

Field effect
.....SR pT71 May 25

Field-effect input stage gives low-noise preamp
.....IFD p70 May 25

Field-effect transistors
.....SR p42 Jan 6

Four-lead SCRs eliminate rate effect
.....PF p88 June 22

Full wave rectifier has wideband frequency response
.....IFD p68 April 13

Getting inside the transistor with lumped physical models Part I
.....ART p54 March 16

Getting inside the transistor with lumped physical models Part II
.....ART p46 March 30

High frequency
.....SR pT14 May 25

High level
.....SR pT60 May 25

High-resolution solid-state device can store images
.....NEWS p25 June 8

Hot electron devices
.....SR p33 Jan 6

Improving the design of optimum RTL inverters
.....ART p54 April 27

Light-sensing SCRs make simple ring counter
.....IFD p50 Feb 3

Light sensors-bright future for an expanding technology part I
.....ART p24 Feb 3

Light sensors-bright future for an expanding technology part II
.....ART p76 Feb 17

Low level
.....SR pT54 May 25

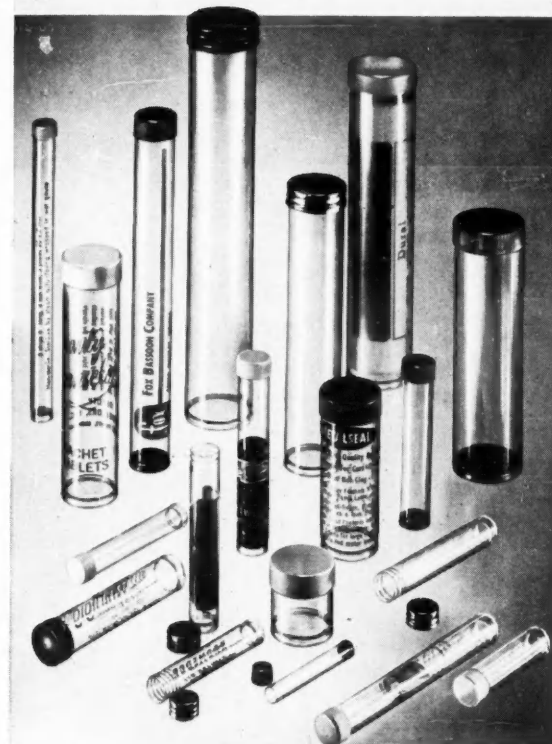
Measuring input and output capacitances of high-frequency transistors
.....ART p64 June 8

More accurate method of designing transistorized schmitt triggers, part I
.....ART p68 March 16

More accurate method of designing transistor-

Lermer Plastic Packaging Containers

never stop working for your products and your company.



Flexible

Shell Containers: Full width straight opening. No turned-in top. Reinforced molded bottoms. Firm wide base. Molded polypropylene closures—in assorted colors. Knurled for easy grip—may be hot stamped in contrasting color with trade mark or other copy. Containers available in diameters from 1/4" through 1 1/4". Any lengths up to 7"—longer lengths on special order. Can be furnished in long lengths open at both ends. You can make your own containers by cutting to your sizes. We furnish closures. **Threaded Containers:** 3/8" through 1 1/4". Metal screw-caps. **Beaded Containers:** polyethylene snap-caps.

May be printed in up to 4 colors. Lightweight—only 1/5 the weight of glass.

Write today for colorful literature, prices and samples.

FROM THE WORLD'S MOST EXPERIENCED MANUFACTURER

Lermer 572 SOUTH AVE. GARWOOD, N.J.
A DIVISION OF
PLASTIC LERMER PACKAGING CORP.

PIONEERS AND SPECIALISTS IN PLASTIC CONTAINERS SINCE 1919

ON READER-SERVICE CARD CIRCLE 57

ELECTRONIC DESIGN

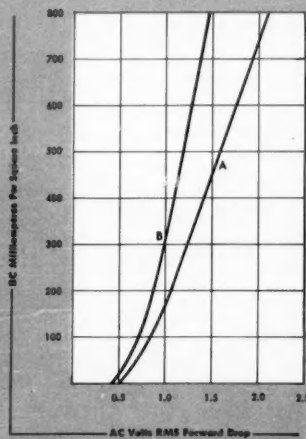
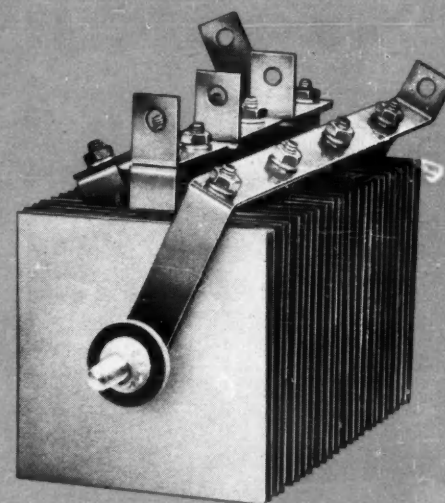
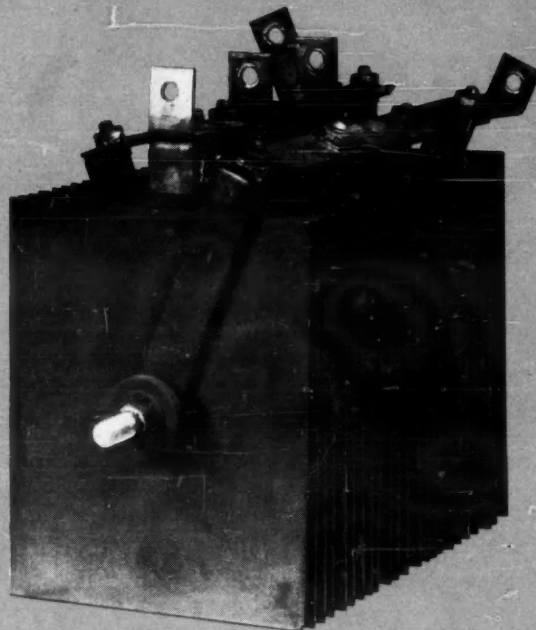
ized schmitt triggers, part II
ART p40 March 30
 PNP switch affords wide range time delay
IFD p65 March 2
 Phasing in on transistorized phase-shift oscillators
ART p32 April 13
 PowerSR pT32 May 25
 Put FETs to work in electrometers
DD p56 May 11
 Radiation resistant VCO uses tunnel diodes
PR p142 April 13
 Rayistor compensates current generation
IFD p75 April 13
 Regenerative load energy absorbed by SCR circuit
IFD p87 May 11
 SCR and Zener diode provide time delay
IFD p73 March 30
 SCR circuit a versatile driver of many loads
IFD p74 April 13
 SCR demodulator handles high power efficiently
IFD p102 March 16
 SCRs magnetics used in compact radar modulator
NEWS p14 Feb 3
 SCR star circuit switches high current
IFD p81 May 11
 SCR transistor switch allows DC motor reversal
IFD p63 Feb 17
 SCR quarter-wave rectifier forms high power pulses
IFD p95 April 27
 SCS linear amplifier gives threshold switching
IFD p78 Jan 20
 Semiconductors improve box-car circuit
IFD p105 March 16
 Semiconductors regulate noise-diode plate current
IFD p109 March 16
 Shut-off is not required in SCR pulse amplifier
IFD p107 March 16
 Silicon carbide thermistor is grown as a single crystal
PF p144 Jan 6
 Speeding the design of unijunction-transistor multivibrators
ART p28 March 30
 Stabilizing transistor-amplifier gain without negative feedback
ART p70 April 27
 Streamlining h-parameter tests
ART p36 May 25
 TRL circuit design implemented by computer
ART p40 March 16
 Transistor shunt regulator improves voltage control
IFD p73 June 8
 Transistors expand current supply range, complementary
IFD p72 June 8
 Transistors, stacked, switch higher voltages
IFD p69 May 25
 Try Epitaxial transistors for supersaturated switching
ART p60 Jan 20
 Turn-off circuit simplifies SCR control
IFD p84 May 11
 UnijunctionSR pT69 May 25
 Unijunction circuit gives long time delay
IFD p96 Feb 17
 Using FETs for precision millivolt sources
AN p42 Feb 3
 Using negative feedback to measure transistor noise
ART p42 May 11
 Using photo field-effect transistors
AN p76 Jan 6

July 20, 1964

HERE IS A SELENIUM STACK THAT HAS HAD IT!

AFTER YEARS OF HARD ABUSIVE SERVICE—

IT HAS BEEN REPLACED BY



Forward voltage characteristics of selenium rectifier cells.
 A - standard density
 B - Mark 5 High Density

this Syntron Mark 5 High Density Selenium Stack. It costs $\frac{1}{2}$ the original price. It's also $\frac{1}{2}$ the size.* It will give 20% longer service.

For Complete Information, Write Direct To —

*Photo actual size comparison.

SYNTRON

SYNTRON COMPANY
 283 LEXINGTON AVENUE • HOMER CITY, PA.

ON READER-SERVICE CARD CIRCLE 58

64R2002