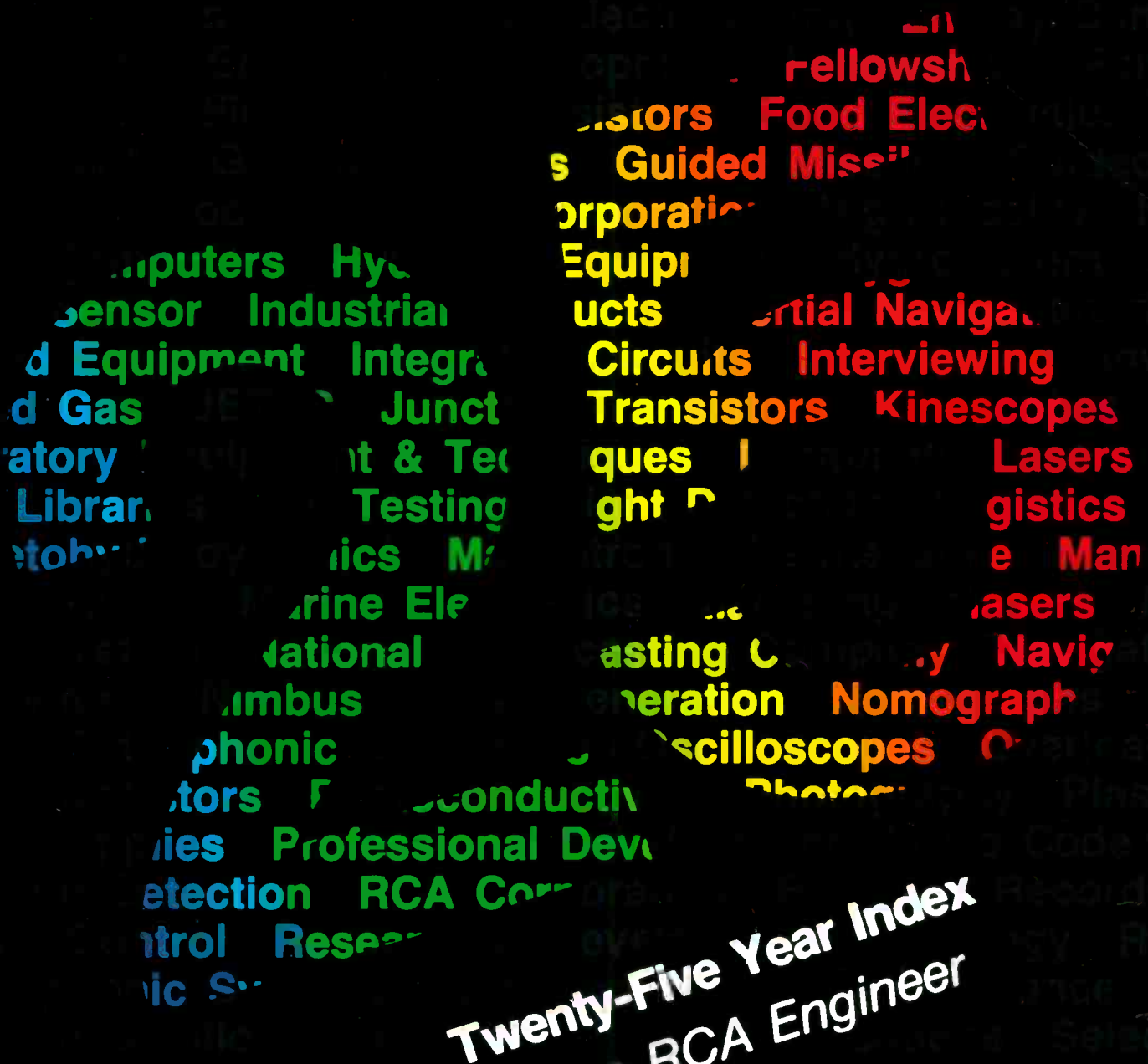
RCA Engineer



Twenty-Five Year Index to the RCA Engineer

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25-Year Index to the *RCA Engineer*

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Issue Themes

Most *RCA Engineer* issues have been developed around technological themes (except for the Anniversary issues). As an aid to the engineer in retrieving information about a particular technology, we list the issue themes for the 25 volumes of the journal.

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	June/July 1955
1/1	Introductory issue
2	No theme
3	No theme
4	No theme
5	No theme
6	No theme
	June/July 1956
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2	No theme
3	No theme
4	Defense electronic products
5	Semiconductors
6	No theme
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2	Record engineering
3	No theme
4	Broadcast engineering
5	No theme
	June/July 1958
4/1	Anniversary issue
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3	The microwave tube
4	No theme
5	Industrial electronic products
6	Astro-Electronics
	June/July 1959
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3	Airborne Systems Division
4	Materials research
5	No theme
6	RCA and BMEWS
	June/July 1960
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4	Commercial computers
5	The C-Stellarator project
6	Video tape recording
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4	Space technology and RCA
5	Telecommunications
6	Semiconductors
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5	Lasers and Masers
6	EDP
	June/July 1963
9/1	Anniversary issue
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3	Direct energy conversion
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5	Magnetic recording
6	Mechanical engineering
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4	Microwave systems and devices
5	Space equipment design
6	Electronics and the life sciences
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5	Advanced communications for the '70s
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5	Consumer electronics engineering
6	Digital computers
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6	Color television receivers

Foreword: *RCA Engineering* evolution

During the past 25 years, I received 150 issues of the *RCA Engineer,* containing more than 2500 papers. Although I normally scanned each journal for items of particular interest to me and wrote a few of the articles myself, I didn't read more than a small percentage of this large collection. During the last several years I was inspired to take a more general interest in reading the *RCA Engineer* after being appointed to its staff as an editorial representative for the Electro-Optics and Devices Operation in Lancaster. Now, however, as a result of my involvement in this 25-year index, published in collaboration with Olive F. Whitehead and Doris E. Hutchison, I have developed a very special appreciation for the *RCA Engineer.*

My work on the subject index required me to scan every article in the entire set — a long and tedious, but rewarding job. I began with Volume 1, published in 1955, and continued through the last issue for which I received prepublication proofs. Incidentally, I learned to appreciate a good abstract and to deplore the use of undefined terminology, particularly acronyms. It took me much longer to do my part of the job than I had estimated, perhaps because I was frequently stimulated to read entire articles. The most satisfying part of my effort was the opportunity to review the evolution of almost every major electronics development of the last quarter century — with pride in RCA's major contributions.

One impressive example is the development of silicon technology. It began with various transistor types, then ICs, LSIs, COS/MOSs and CCDs (if you need identification, see the subject index). Solar cells and other approaches to the energy problem, sophisticated photolithography, and silicon chips with hundreds of thousands of p-n diodes have been researched. The low-light-level TV camera (Silicon Intensifier Target (SIT) tube), with a bonus of color TV from the moon, resulted from some of this research. And now the microprocessor revolution is controlling functions in automotive braking, ignition, fuel mixture, collision avoidance and electronic diagnostics.

Many other developments (not too numerous to index) were reported: the AEGIS system; liquid crystals; computer technology; Videocomp; superconducting magnets; sophisticated satellites for meteorology; military surveillance; communications and space exploration; and RCA's involvement in TIROS, Nimbus, Ranger and Apollo.

The *RCA Engineer* provides a readable but technical account of RCA's progress in invention, development and manufacturing. Congratulations to the staff for its persevering effort to motivate, edit, organize and publish. I hope this index may now prove useful as documentation, reference and inspiration.

Ralph W. Engstrom

May 21, 1980

How to use this index

Subject Index

We arranged principal subject headings alphabetically, then printed them in boldface. Under these subject headings you will find appropriate article titles, each followed by author name (s), volume and issue numbers, issue date, and page number.

"See" references: Within a subject, some descriptive terms are not so well accepted as others. We listed them, though, and referred you to the most accepted term.

"See Also" references lead you from a subject to related subjects, where you can find more articles.

Author Index

We arranged authors' names alphabetically, then printed them in boldface. Some authors wrote several articles. We chose the key word in each title, then used it to alphabetically list the author's articles.

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