

REVIEW

RESEARCH AND ENGINEERING PROGRESS • 1952

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THE COVER—The huge concrete saucer at West Milton, NY—one of 1952's research and engineering advances—is the foundation for a 225-foot steel sphere, nicknamed "atom's apple," that will house an atomic power plant (page 11) . . . And in the high-voltage laboratory at Pittsfield, Mass., flash-over on insulator strings spaced up to 20 feet was accomplished in 1952

for the first time (page 26) . . . TV antennas are now modified to use the higher effective radiated power permitted, following the lifting of the three-year freeze on new television construction (page 42) . . . Gas turbines are finding new applications in industry—repressurizing oil fields and pumping natural gas from the Southwest (page 32)

THE GENERAL ELECTRIC REVIEW IS ISSUED IN JANUARY, MARCH, MAY, JULY, SEPTEMBER, AND NOVEMBER, BY THE GENERAL ELECTRIC COMPANY, SCHENECTADY, NY, AND IS PRINTED IN THE U.S.A. BY THE MAQUA COMPANY. IT IS DISTRIBUTED TO SCIENTISTS AND ENGINEERS THROUGHOUT INDUSTRIAL, CONSULTING, EDUCATIONAL, PROFESSIONAL SOCIETY, AND GOVERNMENT GROUPS, BOTH DOMESTIC AND FOREIGN. . . . THE GENERAL ELECTRIC REVIEW IS COPYRIGHTED 1953 BY THE GENERAL ELECTRIC COMPANY, AND PERMISSION FOR REPRODUCTION IN ANY FORM MUST BE OBTAINED IN WRITING FROM THE PUBLISHER. . . . THE CONTENTS OF THE GENERAL ELECTRIC REVIEW ARE ANALYZED AND INDEXED BY THE INDUSTRIAL ARTS INDEX, THE ENGINEERING INDEX, AND SCIENCE ABSTRACTS. . . . SIX WEEKS' ADVANCE NOTICE, AND OLD ADDRESS AS WELL AS NEW, ARE NECESSARY FOR CHANGE OF ADDRESS. . . . ADDRESS ALL COMMUNICATIONS TO: EDITOR, GENERAL ELECTRIC REVIEW, SCHENECTADY 5, NEW YORK.

**GENERAL
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Review

EVERETT S. LEE • EDITOR PAUL R. HEINMILLER • MANAGING EDITOR

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COVER—On October 15, 1878, Thomas A. Edison organized the first of the companies that, in 1892, became the General Electric Company. Two of the milestones of the past 75 years are portrayed on the cover; many more will be found in the special section that begins on page 25.

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COVER—This array of antennas has varied applications in modern communications systems. More antennas are shown in a **REVIEW** picture story, "An Album of Antennas," beginning on page 44.

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COVER—While operations on steam turbine shells prior to final machining are taking place, the turbine-generator rotors are being balanced in another location before final assembly. The balancing operation is explained by L. P. Grobel in an article beginning on page 22. Cover picture is from an original painting by Ray Prohaska.

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COVER—Small boys plus comic books equal entertainment and education today for tomorrow's engineers. For the story of GE's comic book series, see page 20. Photo by George Burns.

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COVER—Better white light is achieved by mixing "green" and "pink." While green fluorescent phosphors give off more light than any other color, too much of it in white fluorescent lamps make people look ghastly. Pink phosphors must be added to produce a critical balance of green for light output, and pink for looks. For the "why" of white fluorescent lamps, see page 15.

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