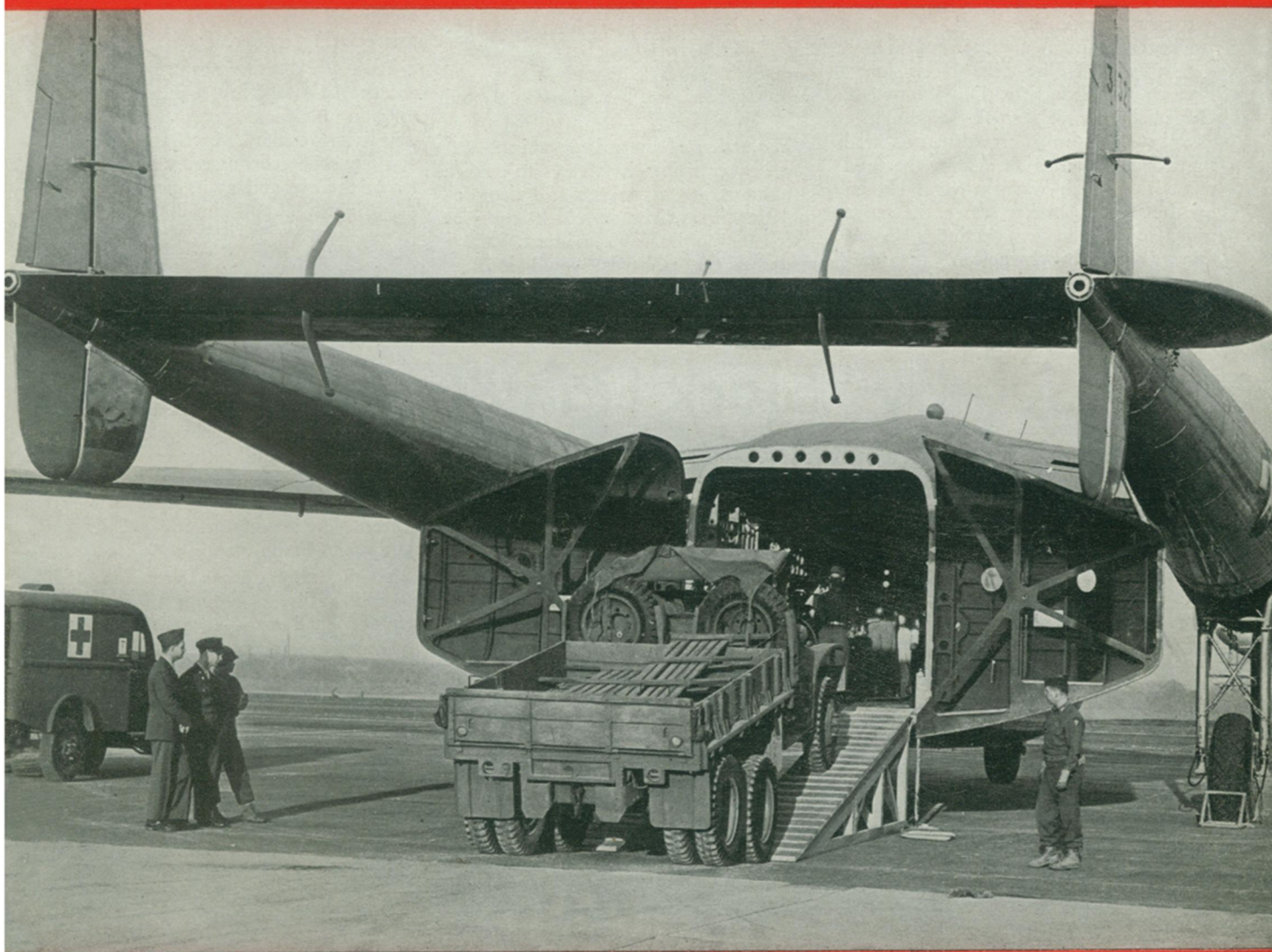


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# SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE • JULY 7, 1945



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A SCIENCE SERVICE PUBLICATION



# NEW KNOWLEDGE CHALLENGES METALLURGISTS

The RCA Electron Microscope discloses significant aspects of metal structures previously unknown

THE accompanying illustrations with their captions are exciting examples of the greater insight into metal structures now made available by the RCA Electron Microscope.

These illustrations are reproductions from electron micrographs made with an RCA Electron Microscope in the Aluminum Research Laboratories of Aluminum Company of America, and are published here by courtesy of that company.

Aluminum Company of America is but one of many leaders in American industry and science that have purchased RCA Electron Microscopes for use in uncovering new knowledge. This knowledge is directly and profitably applied to improve processing procedures and control.

The RCA Electron Microscope is capable of direct magnifications up to 20,000 diameters. Sharp, clear micrographs can be easily and quickly produced. These micrographs are suitable for useful enlargement up to 100,000 diameters. RCA engineers, equipped to help you appraise the possibilities of this remarkable instrument, are at your service for consultation. Please address inquiries to Electron Microscope Section, Dept. 131W, Radio Corporation of America, Camden, N. J.

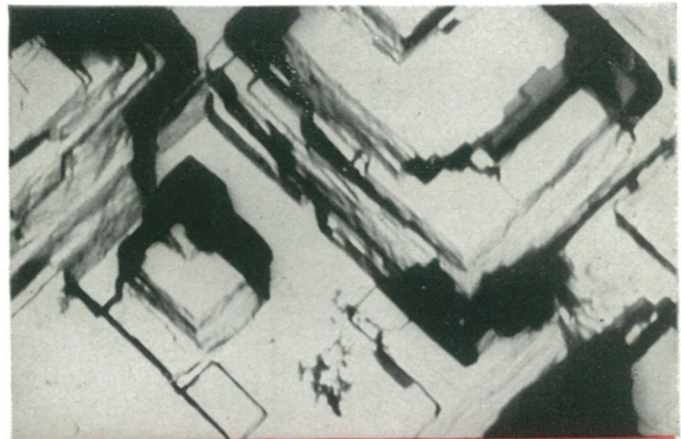


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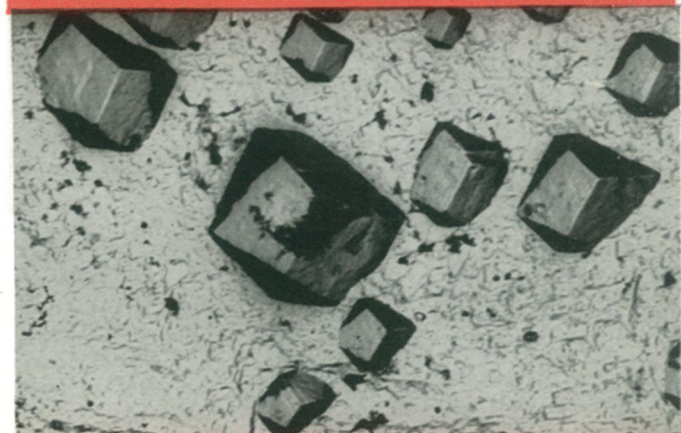
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Cubic block structure within a single grain, in a deep-etched sample of an annealed aluminum alloy sheet.



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Cubic etch pits, in a deep-etched sample of an annealed aluminum alloy sheet.



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Cubic block structure adjacent to a grain boundary, in a deep-etched sample of an annealed aluminum alloy sheet.