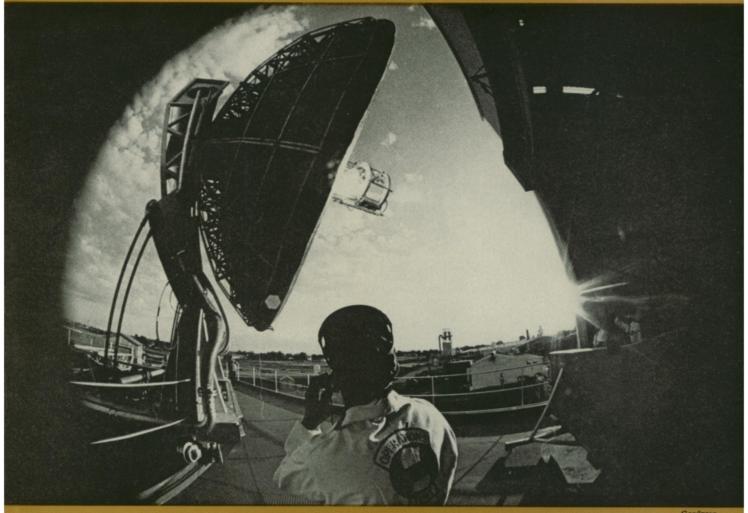
SCIENCE NEWS LETTER





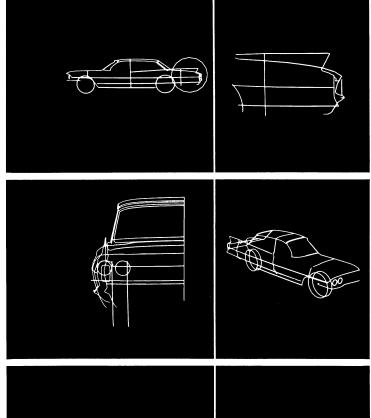
THE WEEKLY SUMMARY OF CURRENT SCIENCE



Sun-Seeker

A SCIENCE SERVICE PUBLICATION





Design Augmented by Computers

... is a current important focus of research at the General Motors Research Laboratories. Recently, for example, we announced our experimental GM DAC-I system (Design Augmented by Computers), a large computer complex under development since the late 1950's.

Still in the prototype stage, this new design system enables the designer to walk into our man-computer communication laboratory with a drawing . . . work on a design problem using an immense reservoir of programs and data stored in the computer . . . and walk out with one or more new drawings under his arm.

These amazing capabilities have come from a string of noteworthy advances in computer hardware and software tied neatly into an operational on-line system. For example, a program-controlled image processor can read free-form curves from drawings directly into the computer. A graphic console permits dynamic two-way "conversational communication" of graphic information between designer and computer. Intricate programming systems permit efficient time-sharing of the computer's central processing unit and space-sharing of its core memory. Permanent photographic copies of new designs are available within 30 seconds.

The General Motors DAC-I system is currently being studied by GM's Fisher Body and Styling Staff designers to determine the feasibility of utilizing mancomputer teams in the design of automobiles. It's another example of how General Motors is opening the door to a more productive, more creative tomorrow.

General Motors Research Laboratories

Warren, Michigan

Top photo shows a designer at the graphic console of the GM DAC-I system. Underneath are computer-produced displays of what he sees when he enlarges, changes views or modifies a design stored in the computer memory.

To help all beginning star-watchers . . . the classic of naked-eye observation again avail-

The Friendly Stars by \$1.00 Martha E. Martin

Revised by Donald Menzel, Harvard Observatory

In any given field of study there are usually one or two introductory books that stand apart from similar works, either because of their acceptance by readers or because of the respect accorded to them by professionals in the field. In astronomy Martha Evans Martin s "The Friendly Stars" is just such a book. Not only has it introduced hundreds of thousands of readers to the stars and constellations, but it is warmly regarded by practicing astronomers, many of whom were first attracted to astronomy by this book. Unfortunately, it has long been out of print and difficult to obtain, while—until this edition—parts of it were necessarily out of date.

Years ago, covers the stars and other celestial bodies that can be seen without the aid of a telescope or other equipment, presenting them not as dull compilations of data, but as "personalities" of the sky that you will want to locate in the heavens and examine. Yet the author has managed to bring her topic to life without either sacrificing scientific accuracy or becoming skimpy or oversimplified. She covers exactly the right ground to give a beginner a basic, completely reliable entry to sky observation.

Other Dover Books

1079. STAR NAMES, THEIR LORE AND MEAN-ING, R. H. Allen. The entire fascinating corpus of lore about the stars, constellations, figures of zodiac, etc. Ranges from Ancient Egyptians to moderns in most entertaining yet scholarly survey. The best source for this important background. 577pp. Paperbd. \$2.35

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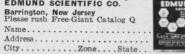
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