

# ESTES

## Model Rocket Supplies

KITS, ENGINES, INFORMATION  
AND SUPPLIES FOR AMERICA'S  
FUTURE SPACE SCIENTISTS.



Catalog  
No. 641

PRICE - 25c

Estes Industries, Inc.

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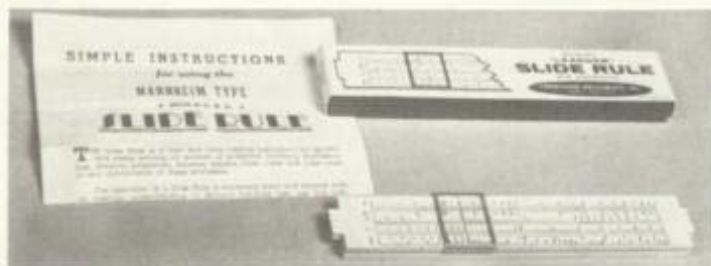
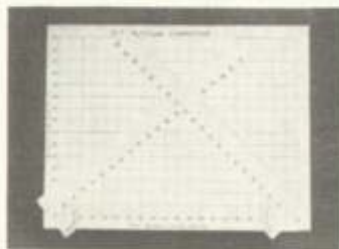
*Devoted to . . . Safety . . . Education . . . Enjoyment . . . in rocketry*

# COMPUTING EQUIPMENT

**2-D COMPUTER:** Build your own easy-to-use altitude computer. Get this set of charts and instructions--everything you need except tape, thumbtacks and glue--assemble the 2-D computer in a few minutes. Designed for use with one or two Altiscopes, easily used with other tracking systems. Shipping weight 2 oz.

Cat. No. 641-AC-1

\$ .25 each



**5" POCKET SLIDE RULE:** Ideal companion to the Altiscope. Find altitudes, solve problems in multiplication, division, proportions, reciprocals, etc. A,B,C,D,CI, and K scales accurately calibrated on white face of hardwood rule. Great for beginners. With easy-to-follow instructions. Shipping weight 4 oz.

Cat. No. 641-SR-1

\$ .40 each



**10" TRIG SLIDE RULE:** Perfect slip-stick for your rocket math. Durable plastic 10" rule has all nine basic scales: A,B,C,D, CI,K,S,T, and L. Do complex problems quickly and easily. Use it for math and science classes, designing and building rockets, and finding altitudes. Comes with protective carrying case and complete instructions. Shipping weight 9 oz.

Cat. No. 641-SR-2

\$ 2.10 each

# BOOKS & LITERATURE

## Design Booklet

Make sure you have this up to date and authoritative model rocket design and plan booklet. Contains complete plans for the Arrow-C, Sky Bird, Orange Bullet, and other well-known and much-flown model rockets. Also includes basic tech reports and lots of information on rocket construction. Thoroughly illustrated, this is a "must" for all beginners, and a good review and reference book for experienced rocketeers. Shipping wt. 4 oz.

Cat. No. 641-P-1

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3 for \$1.00



Note: HB-1, HB-2, and HB-3 may not be included in discount orders.

## Space Volunteers

by Terence Kay

A fascinating introduction to Space Medicine. Tells the story of the tests leading up to the first manned flights into space, of the unsung heroes who risked their lives to make space travel safer. Shipping weight 1 lb., 6 oz.

Cat. No. 641-HB-1

\$ 3.20 each



## Rockets and your Future

by Stanley Beitler

Looking for a space-age career? Rockets and your Future is an information-packed career guide and an easy-to-read manual on basic astronautics. You'll want this one on your bookshelf for sure. Shipping weight 1 lb., 6 oz.

Cat. No. 641-HB-2

\$ 3.75 each



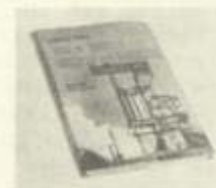
## Guide to Rockets, Missiles and Satellites

by Homer E. Newell

Written by the Director of the Office of Space Sciences, NASA, this book tells all about the big birds, Aeolus to Zuni, and over 160 in between. Filled with clear pictures and basic information on size, thrust, range, etc., this book is a must for the scale model builder and the student of astronautics. Shipping weight 1 lb., 6 oz.

Cat. No. 641-HB-3

\$ 3.50 each



MODEL ROCKETRY

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**1966  
MODEL ROCKET  
SUPPLIES CATALOG**

*Devoted to Safety and Education in Rocketry*

**ESTES INDUSTRIES INC. PENROSE, COLORADO**

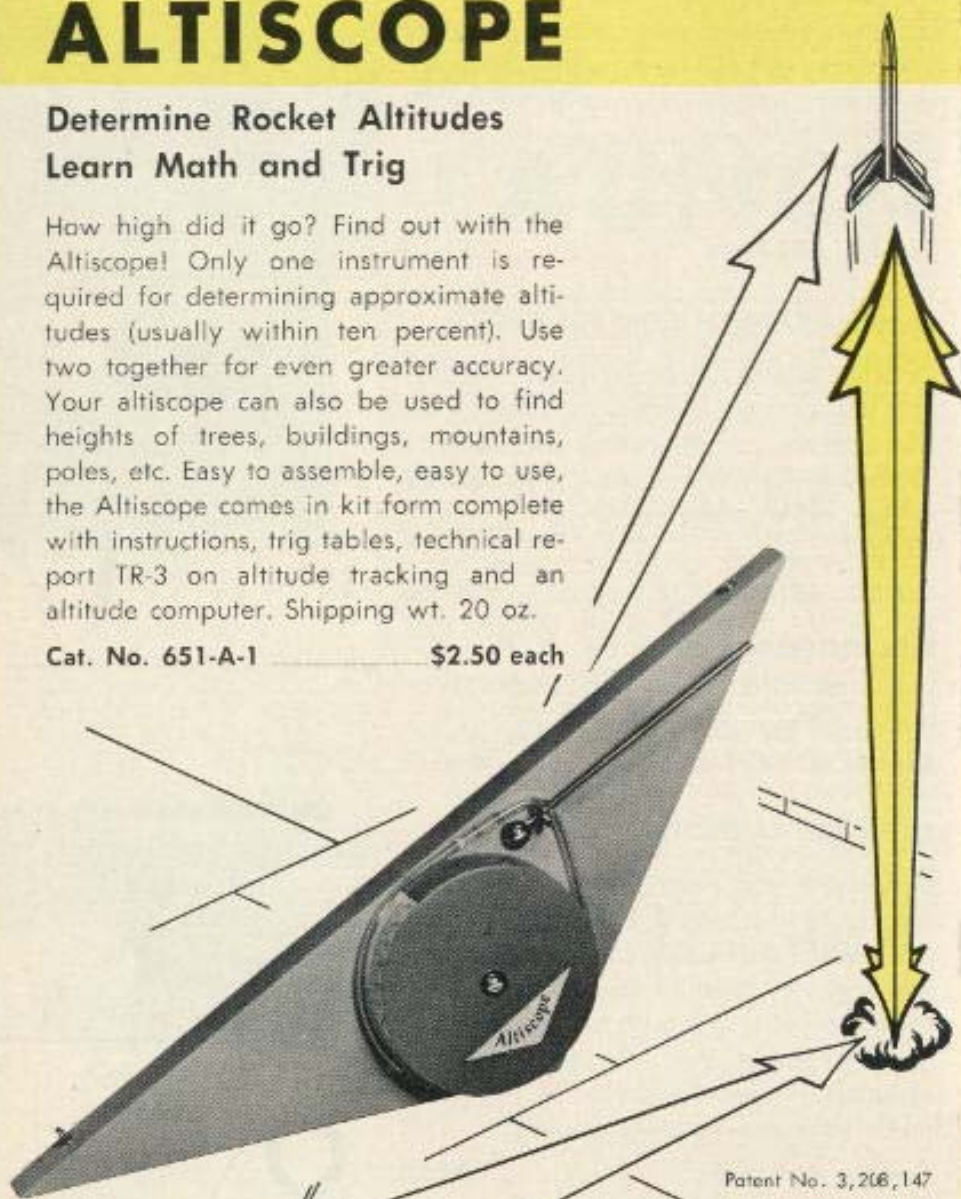
**CAT. NO. 651**

# ALTISCOPE

## Determine Rocket Altitudes Learn Math and Trig

How high did it go? Find out with the Altiscope! Only one instrument is required for determining approximate altitudes (usually within ten percent). Use two together for even greater accuracy. Your altiscope can also be used to find heights of trees, buildings, mountains, poles, etc. Easy to assemble, easy to use, the Altiscope comes in kit form complete with instructions, trig tables, technical report TR-3 on altitude tracking and an altitude computer. Shipping wt. 20 oz.

Cat. No. 651-A-1 ..... \$2.50 each



**EASY TO USE!**

Patent No. 3,206,147

## COMPUTING EQUIPMENT

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**5" POCKET SLIDE RULE:** Solve problems in multiplication, division, proportions, reciprocals, etc. A, B, C, D, CI, and K scales accurately calibrated on white face of hardwood rule. Great for beginners, includes easy-to-follow instructions. Shipping weight 4 oz.

Cat. No. 651-SR-1 ..... \$ .40 each p.p.

**6" POCKET SLIDE RULE:** Ideal companion to the Altiscope. This durable plastic rule is complete and accurate, features A, B, C, CI, D and K scales on front plus S, T, and L scales on back for computing altitudes and working logarithm problems. With vinyl case and instructions. Shipping weight 5 oz.

Cat. No. 651-SR-3 ..... \$1.10 each p.p.

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Cat. No. 651-SR-2 ..... \$2.10 each p.p.

**10" DECIMAL TRIG MULTI-LOG SLIDE RULE:** A big rule at a small price. Complete with 22 scales in a functional grouping for mathematics, science and engineering — covers full log-log and trig requirements. Includes double faced, spring loaded adjustable cursor, operating instructions and protective carrying case. Shipping weight 11 oz.

Cat. No. 651-SR-4 ..... \$3.25 each p.p.

**GRAPH PAPER:** For rocket performance charts stability graphs and countless other uses. 8 1/2" x 11" sheets with 7 1/2" x 10" grid area, divided into 1/10" squares. Shipping weight 4 oz.

Cat. No. 651-GP-1 ..... 20 sheets for \$ .40

**FLIGHT DATA SHEETS:** Keep accurate records on the performance of models. Each data sheet has spaces for complete data on four flights of a model rocket. Includes sections for pre-flight, countdown, launch weather and flight data. Sheets measure 8 1/2" x 11 inches, printed both sides. Shipping wt. 2oz.

Cat. No. 651-DS-1 ..... 5 for \$ .20



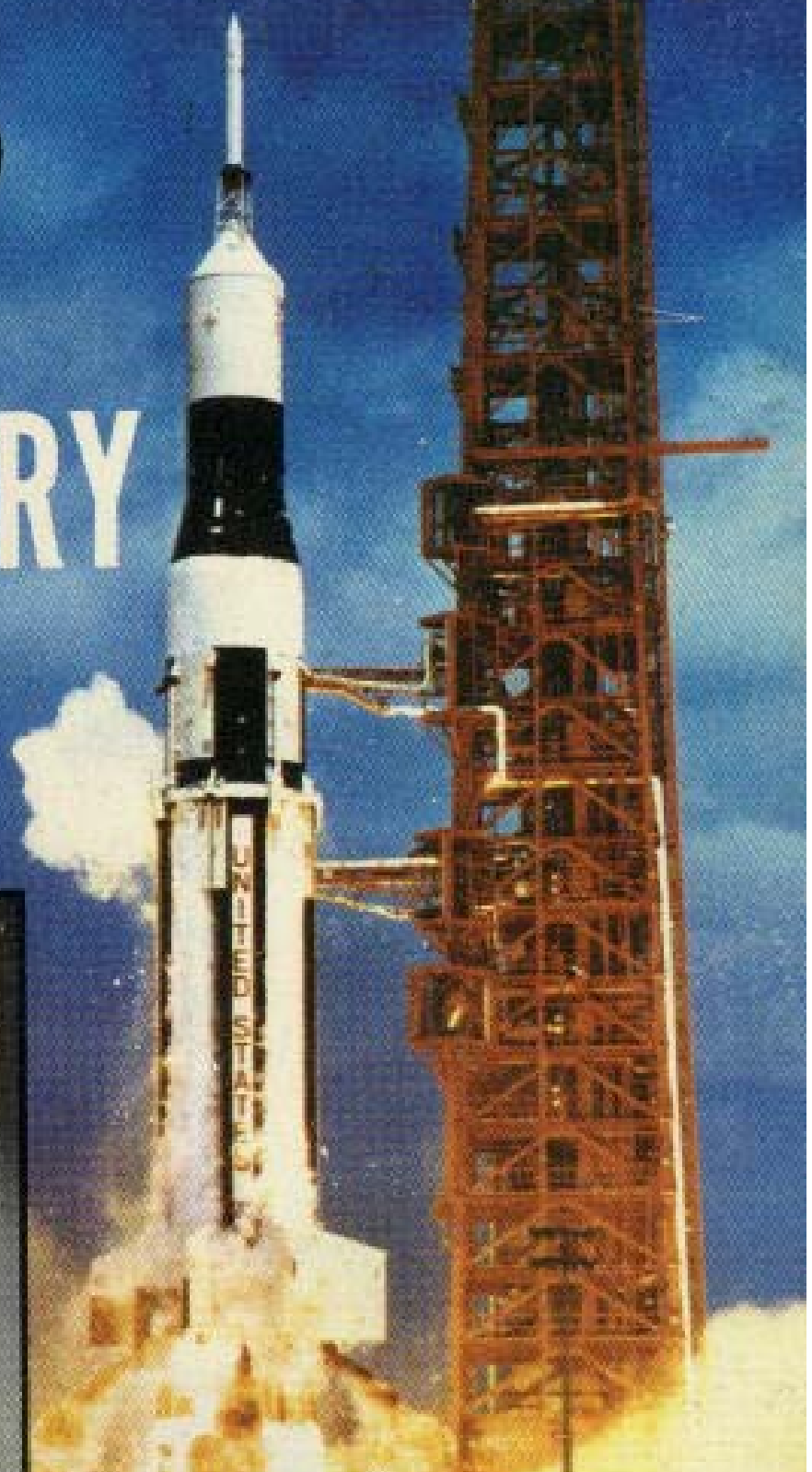
MODEL ROCKETRY

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# MODEL ROCKETRY

## SUPPLY CATALOG



**ESTES INDUSTRIES, INC.**  
**P.O. BOX 227**  
**PENROSE, COLORADO 81240**  
**Catalog No. 671**

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Determine Rocket Altitudes  
Learn Math and Trig



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Cat. No. 651-A-1 ..... \$2.50 each

**EASY TO USE!**



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68

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**LOG-LOG GRAPH PAPER:** Perfect for special performance graphs, altitude and velocity charts, etc. Two by two cycle grid on 8½" x 11" paper, can handle greater value ranges than standard graph paper. Shipping wt. 4 oz.

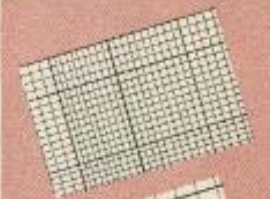
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69

MODEL ROCKETRY

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**ESTES INDUSTRIES, INC.**

P.O. BOX 227  
PENROSE, COLO. 81240

Catalog No. 681

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Determine Rocket Altitudes  
Learn Math and Trig



Patent No. 3,208,147

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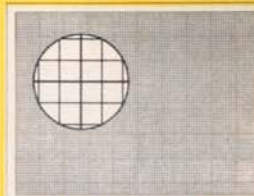
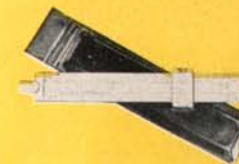
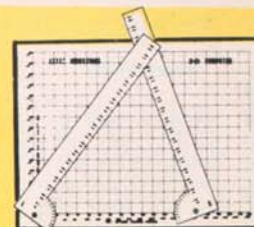
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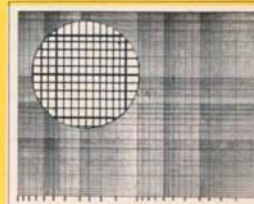
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Cat. No. 651-DS-1 ..... 5 for \$ .20



insets show actual size





NEW TECHNICAL INFORMATION SECTION

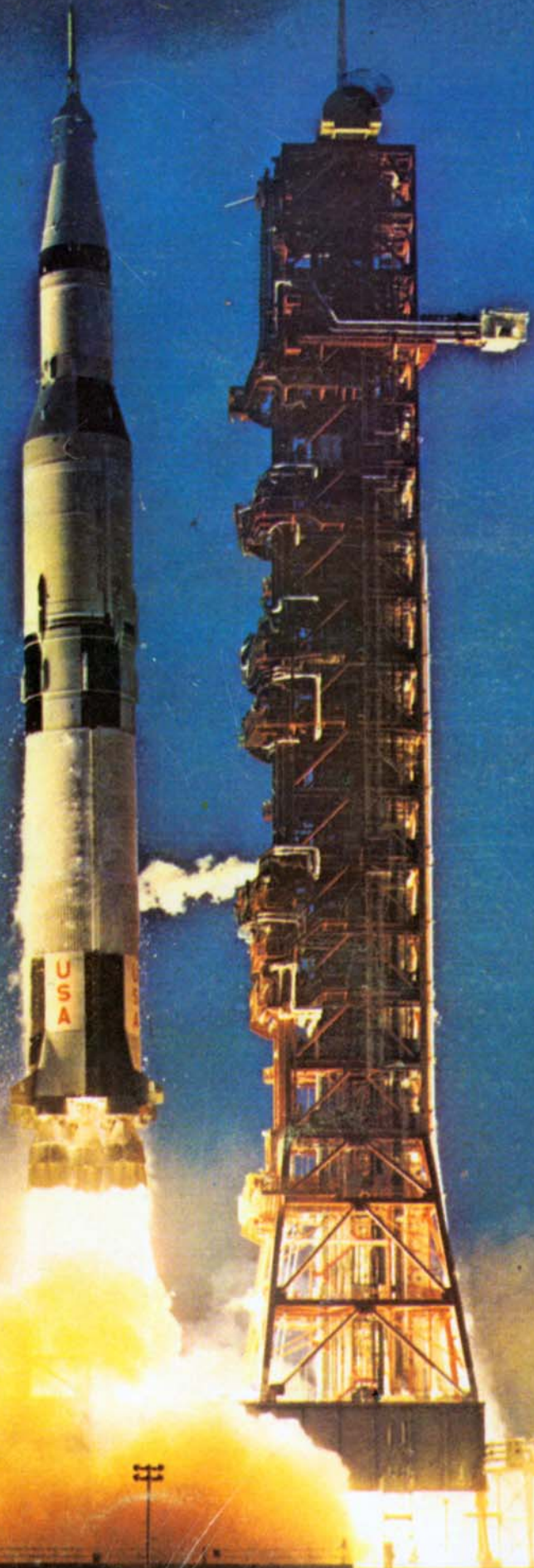
MODEL ROCKETRY

**ESTES**

SCIENTIFIC SPACE AGE HOBBY

# MODEL ROCKET

## SUPPLIES CATALOG



CAT. NO. 691

**ESTES INDUSTRIES, INC. / BOX 227 / PENROSE, COLORADO**

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Learn Math and Trig



Patent No. 3,208,147

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Cat. No. 691-WS-1 ..... \$3.25

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Cat. No. 651-SR-4 ..... \$3.25 each p.p.

See page 123 for book, "Learn Basic Slide Rule" (incl. slide rule)

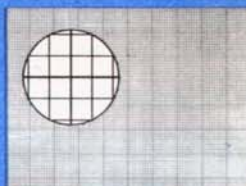
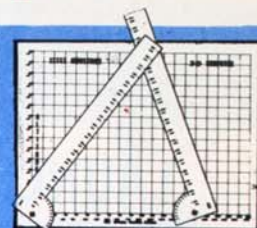
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Cat. No. 651-GP-1 ..... 20 sheets for \$ .40

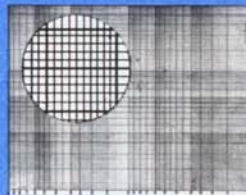
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Cat. No. 671-GP-2 ..... 20 sheets for \$ .40

**FLIGHT DATA SHEETS:** New double size (11" x 17"), printed on both sides. One side has spaces in sequence for pre-flight, count-down, launch and flight summary data. Other side is a rocket designers plan sheet with a large ¼" grid space for ease in drawing your plans. Ship.wt. 2oz. Cat. No. 681-DS-2 .5 for \$ .20



insets show actual size



# BOOKS AND LITERATURE



## DESIGN MANUAL

Make sure you have this up to date and authoritative model rocket design and plan manual. Contains complete plans for the Arrow-C, Orange Bullet and many other well-known and much-flown model rockets. Also includes basic tech reports and lots of information on rocket construction. Thoroughly illustrated, this is a "must" for all beginners and a good review and reference book for experienced rocketeers. Shipping wt. 4 oz.

Cat. No. 651-P-1 ..... Postpaid Price \$ .50

## WHY MODEL ROCKETRY?

A 28 page booklet presenting clearly why model rocketry was developed. An ideal aid to explain your activities to a non-modeler. Shipping wt. 2 oz.

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## OUR ATMOSPHERE

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A fascinating account of the Earth's atmosphere — its spectacular phenomena, its riddles, wonders and effects on life and the world. Probably the most complete book available to the amateur weatherman. Shipping wt. 10 oz.

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This book provides a fascinating view of the world of tomorrow. A carefully worked out series of predictions of what the future will be like. The science fiction ideas of today are logically extrapolated into the commonplace devices of tomorrow. Space laboratories, landing on Mars and many more developments are examined. Shipping wt. 10 oz.

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## THE EXPLORATION OF SPACE

by Arthur C. Clarke

This analysis of the past, present, and future of space exploration is an exciting voyage into man's future by the co-author of the movie 2001: A Space Odyssey. The scientific principles involved in rocket flight are clearly explained. The environments of Earth's neighbors in space are examined. The design of spaceships is one of the many fascinating subjects covered in this excellent book. Shipping wt. 10 oz.

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## LEARN BASIC SLIDE RULE ON YOUR OWN

A Modern Programmed Instruction Manual: Prepared and tested by Cyber-  
Education, Inc., for Frederick Post Company; and Post 1447 slide rule and case.

This fine slide rule with A, B, C, D, C1, K, S, L and T scales comes complete with a durable plastic case. The instruction manual is an excellently written self-instruction manual featuring a tested and proven branching program type of programmed instruction. From beginners to experts desiring a brush-up course, this set provides an easy, quick, accurate way to learn how to use a slide rule on your own. Proceed as quickly or as slowly as you like. Adequate reviews and tests are built into the program. Shipping wt. 16 oz. Cat. No. 691-EK-1 ..... Postpaid Price \$6.00

## 150 SCIENCE EXPERIMENTS STEP-BY-STEP

by Judith Viorst

Dozens of easy-to-perform experiments for the young scientist. Most experiments use only common household items. Learn by performing your own experiments in physics, chemistry, biology and mathematics. Build many functioning scientific devices such as electromagnets, barometers, sound-powered telephones, anemometers, stethoscopes and many others. Shipping wt. 10 oz.

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## THE NEW PHYSICS AND CHEMISTRY DICTIONARY AND HANDBOOK

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## RANGER TO THE MOON

Willy Ley, famed scientist — writer, describes America's first great Lunar adventure. In *Ranger To The Moon* he explains the latest information about the Moon's topography, orbit and origins that has been gathered by rocket research. 127 pages with over 30 illustrations; pictures of the moon and space flight. A welcome addition to any library. Shipping wt. 10 oz.

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## SPACE FRONTIER

by Wernher von Braun

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## MARINER IV TO MARS

In this engrossing book Willy Ley discusses the evidence from Mariner's famed 22 photos. He details the historical background of the epic mission. With an hour-by-hour log of the last stages of Mariner's journey, Ley tells how the spacecraft succeeded in taking its historic measurements and photos. This book is profusely illustrated with drawings and photographs. Shipping weight 10 oz. Cat. No. 671-BK-5 ..... Postpaid Price \$ .75

## SATELLITES, ROCKETS AND OUTER SPACE

Revised with full Color Illustrations

Again Willy Ley provides the background necessary for an understanding of the fast moving developments in space exploration. He gives a clear and concise explanation of the basic theory and techniques of rocketry. The book's 128 pages are illustrated with both black and white drawings and color photos. Shipping weight 10 oz.

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# MODEL ROCKETRY CATALOG

Cat. No. 701



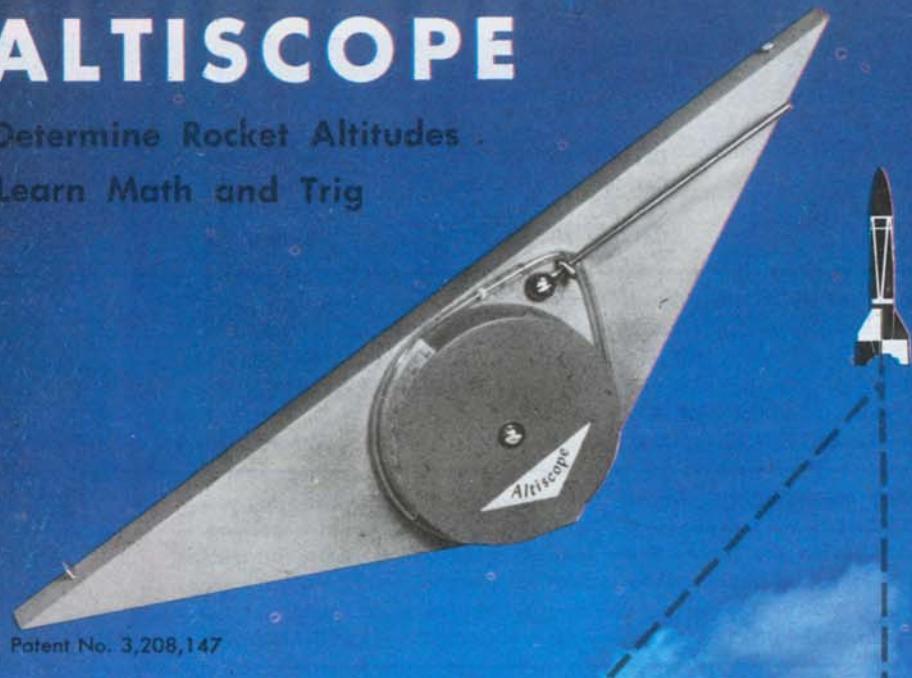
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Penrose, Colorado 81240



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Patent No. 3,208,147

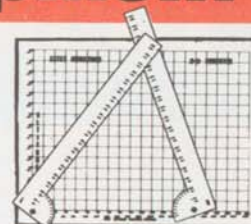
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Cat. No. 701-A-1 ..... \$3.00

**EASY TO USE!**

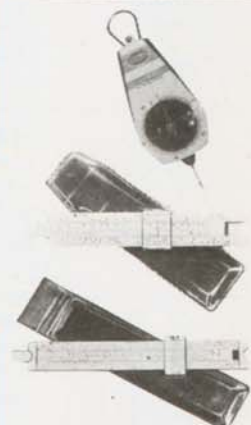
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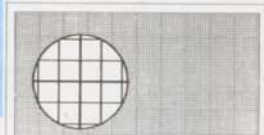
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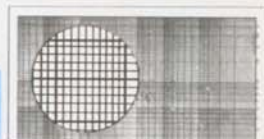
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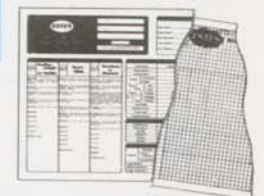


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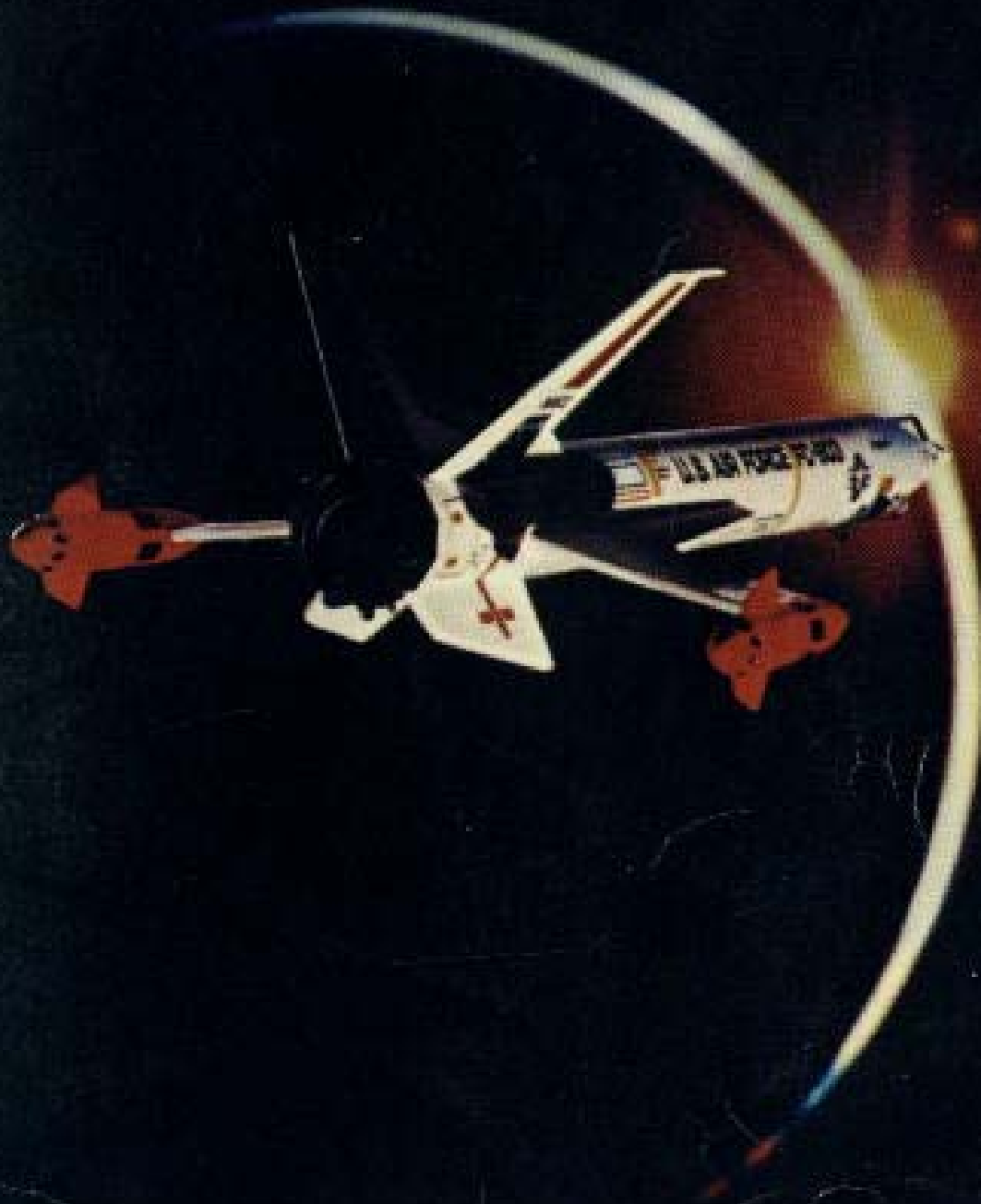
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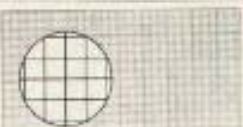
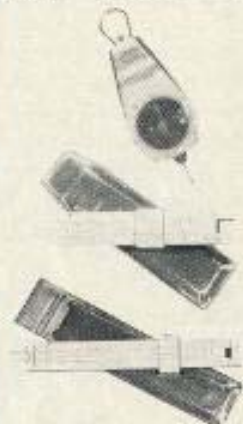
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