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# ZEPHYR SERVICES



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Dear Software User,

Welcome to Zephyr Services! This issue of our catalog brings you 14 new programs, together with all our other software now being used by satisfied customers across the USA and in over 70 other countries! We hope that you will find software to make your computer work (or play) the way you want.

Zephyr was founded to provide quality software at reasonable prices, with personal service for each customer. We are now in our 6th year and continue to place your satisfaction first.

In browsing through the catalog you will find many programs that are interesting and useful. Our software brings you the things you need (beyond the basics of spreadsheets and wordprocessors) to spice up your computer!

For your convenience order toll free, with VISA or MasterCard, 1-800-533-6666 Monday to Saturday, 9 to 9 (In PA 412-422-6600). Or use the handy order form and envelope bound into the catalog. Your order will be promptly shipped.

To all our customers, Thank You!

Sincerely, Paula

James T. Paulsel Publisher

QUALITY • SERVICE • VALUE



What Do Our Customers Say ?...

#### SUPERCAT™ Catalog Your Library-For School, Home, Office

SUPERCAT will create a catalog for a library of books and can be used for other collections such as records or tapes. The menu based program is easy to use and comes with an explanatory manual. The functions of the program include:

Adding Books to the Catalog
Deleting (or undeleting) Books
Editing the Data for Any Book
Printing Catalog Cards, in Various Formats
Searching for and Displaying or Printing
Information in 11 Selectable Formats
Sorting the Catalog Information for any Type Data

SUBJECT 1

RCROW CALL NUMBER 1 FB234.67A

SUPERCAT will store up to 1000 books per floppy disk or up to 5,000 books per directory with a hard disk. The sort routine executes in RAM for fast sorting. (Apple version holds 300 per floppy, 1000 per directory.)

The program provides a professional level of cataloging data. You may store information by author (1 or 2 separate authors per book), title, subject (up to 3 separate subjects per book), call number, publisher, publication date, acquisition

ACCOUNTING: LANGUAGE OF BUSINESS FH567.4 BUSINESS DAVIDSON/SIDNEY IL ICH/JOHN ART & SKILL OF SUCCESSFUL NEBOTIATION 6V934.67 RISTMESS F6234.75 DISTRES MINER/IDEN R. PERSONNEL AND INDUSTRIAL RELATIONS WESTOW/J. FRED HANAGERIAL FINANCE U0563 2 RISTNESS CONTRARIAN INVESTMENT STRATEGY HA122.8 HOW TO RIM A SMALL BUSINESS RISTNESS SPETSMON / REPINO UP YOUR OWN ORGANIZATION! HG235.5 RISTMESS DIRLE/ DONALD N.

AUTHOR 1 NASH/ALLAN N.

One of 11 Report Formats Available

date, and price. Two other fields of information are available that can be adapted for your needs, such as the control of circulating books

SUPERCAT will work with floppy or hard disk computer systems and with any printer. The catalog cards use a 3x5 format (on continuous forms or plain paper). You can print test cards to align the printer.

The sorting of any data field allows flexible retrieval of information for any of the formats available. Data can also be retrieved for a specific record or any sequence of records. A very good program for small to medium sized libraries.

Tile PERSONNEL NO LEBON RELATIONS
SALVON SERVICES NO LEBON RELATIONS
SALVON SERVICES NO LEBON RELATIONS
SUBJECT SERVICES NO LEBON RELATIONS
SUBJECT SERVICES NO LEBON RELATIONS
SUBJECT SERVICES NO LEBON SERVICES

PERSONNEL OND LABOR RELATIONS

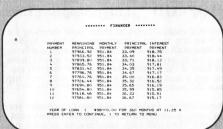
Example Index Card

IBM & Compatibles, Apple II family, any type of printer \$49.95

#### FINANCER™ The Basics of Finance Made Easy!

A utility to help you with those financial related calculations. Includes the 10 most needed financial functions. Menu selectable to do the following:

Present Value of a Future Amount Simple Interest
Future Value of a Present Amount Amortization Tables (On screen, or printed out)
Interest Rate-Compound Interest Interest Rate-Installment Loan Days between Dates
Day of the Week
Term of an Installment Loan
Present Value of a
Series of Payments



Amortization on Screen or Printed Out

Handy way to check out your financial situations. Simple on screen instructions for each module. "I've used several similar programs and FINANCER is the best."-G.W., Montana

IBM & Compatibles, Apple II family, any printer optional

\$19.95

#### CATMAN™ Catalog Your Books, Records, Tapes with Ease

CATMAN is a mini-file system that is very simple to use but is very useful. You input author, title, and subject for each of your books (records, tapes, what have you) according to prompts by the computer. Up to 3000 items can be cataloged on one diskette (1000 for Apple).

Once you have your catalog started it's easy to add or delete items. And when you want to find or check something, use the search option. Find all your records by Mozart (or the Stones). Everything on accounting (or backpacking). Search in any combination you need. For any search you can also get a listing printed out.



Get Listings on Screen or Printed Out

When you don't want to fool with the complexities of a \$700 database program use CATMAN! For more sophisticated cataloging then SUPERCAT is your choice.

IBM & Compatibles, Apple II family, any printer optional

\$19.95

#### **HEADLINER™** To Get Your Message Across!

Create banners and signs in a variety of type sizes. Input your message and print it out in letters up to 13" high. You can use letters, numbers, punctuation marks, or common symbols.



The letter sizes available include 1-3/4" to 7" with paper 8-1/2" wide. On 14" wide paper you can also use 9", 11" and 13" letters. The message prints sideways and can be any length.

Headliner is just the thing for parties or children's activities and at the office or store to create signs and notices.

Selected by PC Magazine for its 1985 Holiday Wish List.

IBM & Compatibles, Apple II family, any type of printer.

\$19.95

#### SHOP-AID™ Easy Shopping Lists, & Never Forget a Thing! New!

Shop-Aid makes it easy to create your shopping list for your trip to the supermarket. It has a built-in database of all the essential and not-so-essential items you need to buy. You can also add any special items you want to the database to customize program use. You get a neat printed list ready to start your trip down the aisles.

First select any (or all) of the basic categories you need, such as fresh fruits and vegatables, dairy products, etc. Then pick each item from the detailed lists that are flashed on to the screen. After making your selections, press a key and your list prints out in a handy, organized format.



Easily Make Your Shopping List, Don't Forget a Thing!

The program is designed to be very easy to use so that you will be able to quickly make your lists. Easier than by hand and you'll be sure to remember not to forget anything!

#### STATCALC™ To Learn and Use Statistics

STATCALC is an integrated set of statistical functions in an easy to use package. The program is designed to be used by students to learn the basics of statistics as well as by experienced users to perform many of the most important statistical calculations. The functions of STATCALC include:

Correlation and Regression (linear) **Binomial Distribution** Normal(Gaussian) Distribution Poisson Distribution Chi-Square Distribution Student's T Distribution Data Handling Routine for Input/Output

THIS ROUTINE CALCULATES THE AREA UNDER THE NORMAL DISTRIBUTION CURVE ZERO TO Z AND FOR +/- Z FROM ZERO (ONE SIDED AND TWO SIDED AREAS CALCULATED IS AREA FROM Z TO INFINITY AND Z TO +/- INFINITY (ONE TALLED AND TWO TALLED AND ENTER VALUE OF 2 2.35

ONE SIDED AREA (PROBABILITY) FOR ZERO TO Z =
TWO SIDED AREA (PROBABILITY) FOR ZERO TO +/- Z = . 4906133 ONE TRILED AREA(PROBABILITY) FOR Z TO INFINITY =
TWO TRILED AREA(PROBABILITY) FOR Z TO +/- INFINITY = HER Z EVALUATION ?(Y/N)

A Variety of Functions Ready to Use

The data handling routine allows easy entry of data for storage and retrieval from disk and will calculate basic parameters such as mean, median, standard deviation, maximum, minimum, range, chi-square value, and will sort the data. It will also display data files for review or editing or for output to a printer.

The program comes with a user's manual that explains how to use STATCALC and provides an introduction to statistical theory with practical examples for each function of the program.

IBM & Compatibles, Apple II family, printer optional

\$39.95

Order Today! 1-800-533-6666 In PA 412-422-6600

#### **LABELWORKS™** Lists and Labels Made Easy!

New;

Create and maintain mailing lists and print labels in several formats. You can choose from 1-across, 2across, 3-across, or 4-across labels of standard sizes. The entry of names and addresses is done with an easy to use fill-in form on screen. It's a snap to add, revise or delete names. Ideal system for your personal lists, for small business use or for clubs, church groups or others needing lists. In addition to the label formats, you can print listings on regular paper as reference documents.

LabelWorks also lets you prints general labels, such as name tags or labels for storage boxes, food containers and similar uses. There are several formats to choose from, some with expanded size characters if you are using a dot matrix printer.

Robert W. Ellison Robotics Today, Inc. 845 Santa Helena St. Torrey Pines, CA 93451

Create Mailing Lists & Labels, Plus General Labels

A handy program to organize your lists for mailings or reference or to generate labels for identification and classification. Stores thousands of names per floppy disk or on harddisk systems. Simple to use, just start the program and you can begin entering names, following on-screen directions.

IBM & Compatibles, Apple II family

## New!

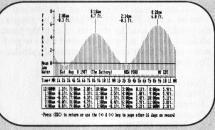
#### TideMaster™ Instant Tide Data for U.S. Coasts

TideMaster gives you all the tide data you need, ready to use! No corrections to make, no calculations, no tables to look up. It's easy, fast and accurate! Just select location from screen, pick date and instantly get:

High and Low Tide Times, AM and PM
Actual Levels Above Mean Low Tide
Tables and Graphs on Screen or Printed
I to 24 Month Tables, 3 Formats to Choose
For Any Day or Month in 1987 or 1988
Over 2000 Coast Locations Included (in complete TideMaster series)

Verely walders are available to registered users

Yearly updates are available to registered users.



Tide Graphs Plotted on Screen or Printed

TideMaster calculations are equal in accuracy to U.S. Government tide information. The technical developer, Coastal Computer Co., is based on over 25 years experience of advanced computer analysis. The complete TideMaster series for the U.S. coastal states is equivalent to over 1,500,000 pages of tide data for your instant access! Comes with complete User's Manual.

IBM & Compatibles, Any Printer for Tables, Any Graphics Printer for Plots

\$39.95 per state.

# Hem;

#### Inventory your Home & Valuables! **HOMEVENTORY™**

Lets you easily create an inventory of your home and its contents. Comes with rooms already defined, plus ones you can name to meet your own house configuration. For the items in each room you enter descriptions, prices, purchase date, serial numbers or other identification and related information. This forms a valuable reference list of your possessions for insurance records or for keeping track of your possessions or collections.

Once you have set-up your inventory, you can later add, revise or delete items to keep it current. You can print out the inventory by room or for all the house. Keep the printouts with your other valuable papers.

vsidence: Hilliam & Mary Dartman Address: 235 S. Windsof Dr. Cleveland, Ohio 45678 Moom: Living Room Item Bil 18 Description: Sony 25° Color TV Model 2885, Silver/Gold Purchase Date: #727/86
Purchase Prace \*725.06
Place \*725.0

Take Inventory of Your Home, A Valuable Record

In addition you can get the total value of each room's contents or for the whole house. If you've been meaning to take inventory of your home but couldn't seem to get started, HomeVentory will make it easy and efficient. And you'll have a permanent record that you can update to maintain it's value.

IBM & Compatibles, Apple II family

\$24.95

Join Our Thousands of **Satisfied Customers!** 

#### STOCKFOLIO™ Stock Portfolio Management

This program will maintain a portfolio of up to 40 stocks to easily keep track of your investments. CompuServe.

STOCKFOLIO displays your portfolio on the screen (10 stocks at a time) and shows for each:

Stock Name, Number of Shares
Date Bought, Price Paid, Latest Price
% Change from Purchase Price
Timeliness of Stock
Safety of Stock
Price to Earnings Ratio, % Yield

Action recommendation - Hold,Sell,Review The display makes it easy to see where you stand on each stock and on the whole portfolio with totals and

averages.

The recommendations are based on market criteria such as time held, % price change (absolute and relative to the market), timeliness, safety and others. The program comes with a model based on actual experience, but it is easy to change the decision parameters to your own values.

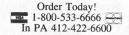
STOCKFOLIO makes it easy to maintain and take action on your portfolio, leaving more time for investment planning. Comes with complete user's guide.

			*****	**** 570	CKFOLIO	*****	•••					
NO	STOCK	QTY	PAID	DATE	LATEST	*C	VALUE	T	8	P/E	×Y	ACTIO
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2	DEERE	500	45.00	12-12-67	67.00	+48.9	33500	2	5	8.0	6.0	HOLD
3	FORD	300	34.00	12-12-79	23.00	-32.4	6900	2	3	9.0	7.0	HOLD
4	WESTINGHSE	400		12-12-56	45.00	+95.7	18000	5	3	8.0	9.0	HOLD
5	AMC	300		06-12-81	28.50	+23.9	8550	3	4	8.3	7.1	HOLD
6	IBM	1200	67.00	01-03-79	123.00	+83.6	147600	1	1	12.8	9.3	HOLD
7	QUBES	350	2.34	11-23-82	21.30	+810.3	7455	8	5	34.0	1.2	SELL .
8	PAG	430		11-20-75		+31.9	24381	5	3		12.5	HOLD
9	WARNER COM	900	23.00	08-23-79	47.00	+104.3	42300	1	2	12.0	3.6	HOLD
10	DIG. EQP C	450	39.00	03-09-83	47.00	+20.5	21150	2	4	14.0	5. 3	HOLD
11	TEXACO	750		07-24-80	36.00	+5.9	27000	4	8	8.9	7.3	HOLD
12	GULF	200		12-12-81	34.00	+44.1	6800	2	5	9.0	7.3	HOLD
13		0	CURREN	TLY NO ST		HIS PO	BITION					
14	ROCKWELL I	400	45.00	12-04-82	76.50	+70.0	30600	8	2	9.0	12.0	HOLD
15	AMER. BRAND	1500		04-12-79	78.40	+74.2		1	2	12.0	6.2	HOLD
16	SEARS	500		11-23-74	12.00	-47.8	6000	2	1	8.5	9.2	HOLD
	UNITED AIR	800		05-12-77		-37.0	11600	4	3	6.0	9.3	SELL .
	BUYRITE	400		11-12-82	23.00	+35.3	9200	1	3	6.0	7.3	HOLD
	KODAK	150		02-24-83	54.00	-19.4	8100	1	1		13.0	HOLD
20	US STEEL	1500	21.00	06-01-83	19.00	-9.5	28500	3	3	7.0	6.0	SELL :

Maintain Up to 40 Stocks

IBM & Compatibles, Apple II family(with 80 column screen)

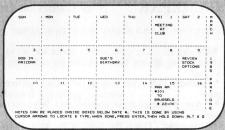
\$29.95



#### TIME-MACHINE™ Make Your Own Calendars!

The program provides a calendar function which is very useful. You can display on the screen, month by month, a calendar for any year and you can if you wish have whatever portion you need printed on any 80 column printer. TIME-MACHINE will customize your calendar by letting you make brief notes or reminders for any day or days of the year on the calendars which you can display on screen or print out. You can save these calendars on disk to edit later or to use as a record of events.

TIME-MACHINE also gives you time in other forms such as Julian day, true solar time, sidereal time, Universal Time, Ephemeris Time. It will display a



Add Notes to Your Calendars

full screen digital clock that ticks and chimes on the hour and calculates the day of the week for any date or the number of days between any two dates.

IBM & Compatibles only. No graphics required. Printer optional

#### New!

#### ORACLE-EAST™ Secrets of the I Ching Revealed!

ORACLE-EAST is a modern implementation of the ancient Chinese way of fortune telling. This is based on the 4000 year old book called the I Ching, or Book of Changes. It has been in use, and elaborated upon, since before the time of Confucius. The way of entry to the I Ching was traditionally by the method of selecting yarrow sticks or tossing coins. Oracle-East substitutes the random number ability of the computer combined with human interaction to achieve the same end.

The casting technique generates the so-called trigrams in pairs that form one of the possible hexagrams of the I Ching to which traditional interpretations apply. The results are also influenced by 'moving' lines which modify an interpretation. The meanings of the I Ching remain subject to scholarly research.



The I Ching is one of the Five Classics of Confucianism and is essentially a dualistic approach to man and nature. This sees events shaped by opposite forces such as hot/cold, male/female and the like. Oracle-East provides these insights with the convenience of the computer, giving these readings on the screen. Also included is a brief history of the I Ching and an explanation of how it is to be applied.

IBM & Compatibles, Apple II family

\$24.95

#### CHESSCHAMP™ A Classic Game in a Modern Form

For chess players novice to intermediate (you choose the level). The basic rules of chess are included as a menu option to refresh your memory or teach the beginner. You can also display the chessmen designs and names. A detailed help menu can be called up anytime during play to assist you in using the functions available.

The chessmen are displayed on a full screen board with distinctive black and white design for easy play. All regular chess moves are programmed in. You can play the computer or have it play each side. Choose to be black or white and, if you want, exchange sides with the computer during play. The board set-up can be changed to any arrangement you wish to try for special situations. Altogether a very flexible program and fun to play.

IBM & Compatibles only, no graphics needed

\$24.95

#### **GAMEPAK™** Nine Games on One Disk!

Select from a menu to play any of these games:

\* Blackjack - The computer is dealer and up to 7 humans play against him. Just like the real thing at Vegas!

\* Football - Full screen playing field. Call 7 different

\* Poker - Five card draw, nothing wild. Wipe out the computer?

\* Hangman - Guess the word or the games's up. Choose word difficulty to suit kids or adults.

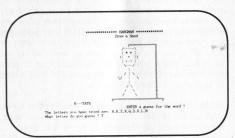
\* Life - Growth or decline of your colonies. Fascinating to watch!

\* Alphalogic - Remember Mastermind? This game uses letter combinations for you to deduce.

\* Checkers - Complete simulation. Watch the computer!

\* Tic-Tac-Toe - Fun for the kids. Keeps score.

\* Peg-IQ - Jump the pegs. Leave one and you're a genius.



Play Hangman or 8 Other Games

Lots of fun for a modest price.

#### New;

#### **PuzzlePix**<sup>™</sup> Solve the Puzzle on Screen

PuzzlePix is a modern implementation of the ancient Chinese game of tangrams. By using simple shapes you can create interesting puzzle forms, only your imagination is the limit. Or you choose from the built-in library of 100 puzzles.

You play the game with one or more persons. After choosing or creating a puzzle then you or your opponent assemble the pieces to match the puzzle outlined on screen. This can be easy if only one or two pieces remain to be placed, or very difficult if no pieces are already in place. Once you have correctly completed the puzzle you are congratulated by the computer! There is a clock that times each player so

PItVO
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that you can measure performance or make it a competitive event.

The playing technique is easy. On screen you see the missing pieces, each labeled with a letter. You press a letter to choose a piece and then you can move the piece with the cursor control arrows to any position on screen. You can make large movements or choose fine movements for exact placement. You may also rotate any piece to position it properly. The play is easy, figuring out which piece goes where is the fun part!

PuzzlePix is a great game for all members of the family, from the four year old to Grandad. With the options for creating your own puzzles, choosing from the library, and racing the clock or a friend, you'll get lots of play from PuzzlePix!

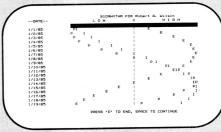
IBM & Compatibles with CGA or EGA graphics.

\$29.95

#### BIODATA™ Biorhythms and Birthdate Facts

BIODATA takes your birthdate and calculates various facts about this event. You get on screen, or printed out, a continuous biorhythm chart (for any time period and length you specify) showing the condition of your emotional, physical, and intellectual being. According to the theories of biorhythms, these charts predict the favorable and unfavorable times for your activities.

Also part of the program is a calculation of the Julian day for your birth, the number of days since you were born and the day of the week of your birthdate. In addition, BIODATA calculates the celestial longitude of the sun at birth and your astrological sign.



Choose from 100 Puzzles, or Create Your Own!

SHAPE-G HINTS USED-0 LEVEL-5 PATTERN- 26

Biorhythms on Screen or Printed Out

Use for yourself and for family and friends to learn what your biorhythms predict.

IBM & Compatibles, Apple II family, printer optional

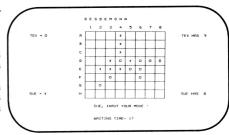
\$19.95

#### **DESDEMONA™** A Challenging Board Strategy Game

You play the computer or play a friend. The computer keeps track of the board pieces and displays the score.

The game is played by placing your men on the 8x8 board with the intention of trapping your opponents men between yours (the captured men change sides). Then your opponent plays likewise. The player with the most men on the board at the end wins. The rules are simple but it's very challenging for players with good strategy. Beating the computer isn't easy!

IBM & Compatibles, Apple II family, no graphics required \$19.95



Play the Computer or a Friend

#### HOROSCOPICS™ What the Stars Have in Store for You!

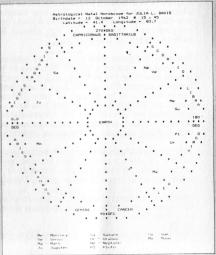
Fun and easy to use. You input name, date and time of birth, and place of birth (latitude and longitude). Then your computer does highly accurate calculations to determine the exact sky conditions at the time of your birth.

Using these results, a horoscope chart is printed which shows the zodiac constellations relative to the earth and plots the positions in the sky of the sun, moon, and all 8 other planets. Any 80 column printer may be used, no graphics required.

Next is printed a table of 8 astronomical parameters (geocentric longitude, distance from earth, etc.) for the sun, moon, and planets so that detailed analysis is possible for the advanced astrologer. An astrological reading is then given based on the positions of the sun (sun sign), moon (moon sign), and each planet. The readings are according to traditional astrological interpretations.

Also provided is a table for determining the ascendant sign, and the associated interpretation.

Finally, there is an analysis of the conjunctions and oppositions of the sun, moon, and planets for your time of birth.



Get Chart Plus 3 More Pages

Family, friends and relatives will find your astrological analysis fascinating and fun. Don't blame us if you're swamped with requests!

IBM & Compatibles, Apple II family, any 80 column printer.

\$24.95

# Hen;

#### NUMBERSCOPE™ The World of Numbers and Life

This program does analysis of your name and birthdate and provides an interpretation based on the traditions of Numerology handed down since the Babylonians. Meaning is revealed by the letters and numbers and their arrangements. The computer eliminates the drudgery of calculations and cross referencing.

NUMBERSCOPE includes the readings of traditional texts that associate meaning with numbers. The letters of the name are assigned number values for analysis and the birthdate numbers likewise interact. The results of the analysis include the following:

Motivation, Expression and Inner-self Numbers Karmic Lessons to be Learned Hidden Tendencies and Subconscious Response Destiny Number, Life Cycles and Turning Points MusherScope - Part 1 Beating for: MOREST MILLIAN FLETCHER

Motivation number 4

Commercative, endows attructure and method, avoids change.

Inner-caff number 5

Expression number 4

Mide Vision, philosophic and worldly, sifts are shared.

Karmic leasons to be learned (if any).

7. Encions can flow but must be controlled or they control you.

Miden tonderics (if any).

3. Bissipate, moregise by lack of forces, insations and vestions.

9. Ideal Nat. merking world harmony, impractical in daily affairs.

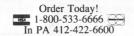
Frees Beturn to continue.

Easy Numerology Analysis, No Fuss, No Calculations!

Also included is a brief history of Numerology and how it is applied. There are some example names and birthdates for famous people that you can use to test the results of Numerology against your own results and those of friends.

IBM & Compatibles, Apple II family

\$19.95



#### **Ordering Information**

**Telephone Orders -** Call toll free 1-800-533-6666, 9-9, Mon. thru Sat.In Pennsylvania or for information call 412-422-6600. Please have your VISA or MasterCard number and expiration date ready. Quickest way to place and receive your order.

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Shipping - Add \$3.00 to your order total to cover postage and handling to addresses in the U.S., Canada and Mexico. For overseas addresses add \$5.00 for shipping. U.S. orders are shipped first class mail. Overseas orders are shipped air parcel post.

Foreign Orders - Use of your VISA or Master-Card is preferred. Checks will be accepted only if payable in U.S. dollars and drawn on a bank (or branch) located in the U.S.

Computer Type - Avoid delays, please remember to indicate your make and model of computer(such as Apple IIe, IBM XT, or compatible type). Note that some programs are available only for a particular computer type.

Free Catalogs - Does one of your friends have an IBM or Apple computer? Just fill in the name and address on the order form and we will mail a catalog right away.

**Guarantee -** Disk are warranted against defects in the media. Return any defective disk within 30 days for a free replacement.



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# Quality Software for IBM and Apple Computers



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VISA				TOTAL -	
Expiration	Date				

Join Our Thousand of Satisfied Customers, in all 50 States and over 70 countries. Including schools & universities (Princeton, Harvard, Berkeley, Georgia Tech, many more), businesses (General Motors, Standard Oil, IBM, Westinghouse, etc.), governments and individual computer users worldwide. Some actual comments on our products and service:

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"Vocabulator - Recommended: Excellent" - Electronic Learning Magazine

"Astrostell is a perfect delight, one I would have like to have written myself." Prof. M.F., Collegeville, MN

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"Astrocalc more than met my expectations. Would recommend it to anyone." Observatory Director, NI

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#### ASTROFINDER™ Planetarium, Chart Maker & More!

New!

#### Features for Everyone - Amateur & Professional

Simulated Skyviews on Screen, Your Date/Location Star Charts in 4 Formats, to Selected 5th Magnitude 30 Page Star Catalog, on Screen or Print Out Manual with 14 Page Star Atlas, 2 Diskettes

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1/4 of Night Sky Realistically Simulated on Screen Center on Selected Object, Use Star Magnitude Filter Or Choose Any Azimuth (0-360 degrees) on Your Horizon

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The Night Sky for Your Time and Location

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Just Enter ID and Get Objects on Screen/Chart, All Messier Objects Deep-Sky Objects File, Add More as You Wish, Planets & Comets Tables LaGrangian Interpolation for Accurate Location

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#### SUNTRACKER™ Solar Eclipses Calculated and Displayed

New!

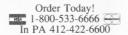
Calculates astronomical conditions for any solar eclipse and displays a map with areas of visibility. The program computes and provides eclipse elements, accurate to 12 miles on the Earth's surface. Or you can input elements to achieve greater accuracy. Using data from EclipseMaster, the accuracy is to within 1-mile.

The central line of the eclipse is plotted on a world map and the limits of visibility for a partial eclipse are also plotted. User can specify the percent of coverage of the Sun's diameter for the partial eclipse. Tabular data for the eclipse includes central line location, width, duration of totality and the altitude of the Sun. Complete with user's Manual.



Central Eclipse Line & Limits of Visibility

IBM & Compatibles, Apple II family, Commodore 64/128



#### ASTROCALC™ For What's Happening in the Sky!

You input time, day, month and year and your latitude and longitude. Then ASTROCALC does scientifically accurate calculations to give you all of the following for the sun, moon, and all planets:

Right Ascension and Declination
Altitude and Azimuth
Ecliptic Latitude and Longitude
Angular Size, Degrees or Arc Seconds
Phase, Fraction Illuminated
Elongation from Sun
Orbital Elements for each Body
Rise/Set Times
Brightness, in Astronomical Magnitude
Distances from Sun and Earth

#### Also provided are:

Local Standard Time Greenwich Mean Time Local Sidereal Time Greenwich Sidereal Time Solar Equation of Time Twilight Start/End Times

In summary, all basic astronomical data (both heliocentric and geocentric) is calculated for any date and location of interest. ASTROCALC uses double precision calculations for increased accuracy. Most results are accurate to within a minute of arc over the

ASTRONOMICAL DATA FOR 20 SC / 1964 8 22.45 EDT LAT 40.45 LONG- 80.37

SUM AN ELECTRIC SC 20 SC 2

Summary Table, Plus 18 Data Screens

range 1700 to 2200 AD, with decreasing accuracy the more distant in time.

A must program for astronomers, students, advanced astrologers or anyone interested in the sky. A detailed user's manual is provided which explains the basics of positional astronomy and program use. Thousands of satisfied users, worldwide.

IBM & Compatibles, Apple II family, Commodore 64/128

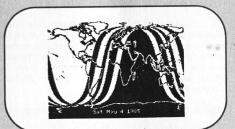
\$29.95

## Hem!

#### MOONTRACKER™ Lunar Eclipses Computed and Displayed

Calculates the circumstances for a lunar eclipse and then displays the areas of visibility on a world map, including penumbral and umbral phases, and the rise/set lines.

Tabular data is also generated including fraction coverage of moon's diameter by penumbra and umbra, position angle of shadow, longitude & latitude of point directly under moon, degrees separating the centers of the Earth & Moon shadows, angular radius of the penumbra & umbra, angular diameter of the moon.



Map Shows Phases of Any Lunar Eclipse

The accuracy of the results is to within 16 miles. One mile accuracy is acheived with input from the EclipseMaster program.

IBM & Compatibles, Apple II family, Commodore 64/128

#### ASTROSTELL™ The Constellations and Their Treasures

ASTROSTELL uses your computer to teach the constellations. All 88 constellations are included plus the many deep sky objects they contain. The constellations are shown on screen using 4 levels of star brightness to approximate what is seen in the sky. The features of the program include:

- \* Call up Constellations by Name to Screen
- \* Random Display Mode to Guess Correct Names
- \* Gives Names and Magnitudes of Bright Stars
- \* Shows Deep Sky Objects & Descriptions (galaxies, star clusters, nebula, double stars)
- \* Option to show stars only or with objects
- \* Classical Lore Given for Each Constellation



88 Constellations & Basic Data

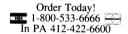
ASTROSTELL lets you input date, time, and your latitude and longitude and then the program lists the constellations visible in the sky for these conditions. Then you may display the ones you wish on the screen. No graphics board is required.

The program also includes background information on the history of the constellations, the development of star charts and observing tips to learn the constellation, plus how to use a telescope.

For all astronomers, amateur or professional, young and old.

IBM & Compatibles, Apple II family(with 80 column screen)

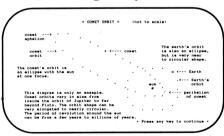
\$29.95



#### **COMETWATCH™** All About Comet's, Including Halley's

Includes extensive information about comets and how to observe and photograph them. For Halley's comet it gives the history and details of the 1985/1986 and other returns. Activities for using the program are also included. The calculations provided are:

- \* On-screen plot of any comet orbit with orbits of Mars, Jupiter, Saturn, and Uranus for reference. Table of comet data provided or input your own.
- \* Halley's position in the sky for any date, time, latitude and longitude for 1985/1986 return. Gives altitude and azimuth.



Orbit Example, Calculate Others

\* Halley/Sun/Earth encounter. For any Halley return, past or future, plots path of Halley and Earth around the sun.

For the amateur astronomer or in the classroom, Cometwatch is an excellent introduction to comets.

IBM & Compatibles, Apple II family, Commodore 64/128

#### ASTROBASE™ A Database for the Sky beyond Pluto

This program is for astronomical observers and anyone curious about what is in the sky beyond our solar system. Valuable for all astronomers or students from middle school and up.

ASTROBASE is a mini-database system that contains, built-in, the 300 most important astronomical objects of the deep sky (beyond our solar system). Besides the 300 objects already stored, you can add up to 700 more objects of interest (up to 400 for Apple). Among the 300 objects in ASTROBASE are the following types:

Galaxies
Open Star Clusters
Globular Star Clusters
Emission Nebula
Dark Nebula
Planetary Nebula
Double Stars
Variable Stars
Ouasars & Special Stars

These objects represent the variety of what exists in the cosmos and are considered the most important of their type. All are observable in telescopes of amateur size (6 to 16 inches aperture) and include the most

famous objects such as Messier's list and other compilations.

YOU CAN EDIT AN OBJECT / ENTER OBSERVATIONS

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ENTER OFFICIAL DESIGNATION (EX. 180-735) 7 MGC224

OFFICIAL DESIGNATION (EX. 180-224)

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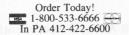
300 Objects, Plus Add Your Own

You can do searches for types of objects and display or print resulting lists. You also can display which objects are visible in the sky for any day and time you choose as an aid for observing. ASTROBASE can be an observing log to record date, conditions, and other information about each object as you observe them. See all 300 objects and you will have a thorough tour of the universe!

Comes with manual explaining program use and the fundamentals of astronomy related to the objects in ASTROBASE.

IBM & Compatibles, Apple II family, printer optional

\$29.95



## Hen!

#### ECLIPSEMASTER™ High Accuracy Eclipse Data!

Computes solar and lunar eclipses within 1-mile accuracy for central line, 1/20 of 1% magnitude for solar or lunar eclipses. Accurate to 3" of arc in longitude & 1" in latitude.

All aspects of eclipse calculations are included: central line, local circumstances, area of visibility, duration, width of central line, finding of eclipse seasons for any year. Also computes the elements of an occultation of a star or planet by the moon.

IBM & Compatibles, Apple II family, Commodore 64/128

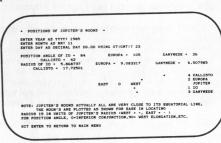
#### ASTRO-AID™ To Help You Get the Answers!

An integrated software package for astronomical work. In one easy to use, menu selectable program, you get 44 astronomical functions for a wide variety of applications. ASTRO-AID includes:

Coordinate Conversions-Equat., Ecliptic, Galactic, Alt-Az Time Conversions-Julian Day, Greg., Sidereal, UT, ET, Solar Basic Conversions-Distances, Temperatures, Energy, Etc. Precession, Nutation, Aberration, Parallax, Refraction Kepler's/Newton's Laws, Relativity, Trigonometry Telescope Design-Resolution, Coma, Diagonal, Fields, Etc. Equinox/Solstice, Polaris Transits, Jupiter's moons Solar System Data-Sun, Moon, Planets, Satellites Constellations-Names, Areas, Primary Stars, Lore Stars-Nearest, Brightest, Positions, Names, Spectra

All these functions are scientifically accurate and are suitable for use by professionals, amateurs, and educators/students learning about astronomy and the sky.

ASTRO-AID comes with a manual that explains both its use and the basic astronomical theory involved including figures that illustrate most of the terms defined in the text. This program and ASTROCALC, used together provide a good summary of the most often used calculational capabilities for astronomy. They also serve as an introduction to astronomy for anyone from middle school and up (some parts are too advanced for beginners).



Moons of Jupiter & Lots More

ASTRO-AID and ASTROCALC are now being used at many schools and universities across the country, becoming the standards for their applications. If you have an interest in astronomy you will find these very useful programs.

IBM & Compatibles, Apple II family, Commodore 64/128

\$29.95

#### NITEMAPPER™ The Day/Night Boundaries Mapped!

Hem!

For any date and time calculates the Earth/Sun conditions and generates an on-screen world map showing the day area in white, the night area dark, and flashing symbols where the Sun and Moon are directly overhead.

Also shown are the equator, the moon rise/set line and the ecliptic, lunar nodes and perigee point projected onto the surface. The program has options to update information in real time, keep a fixed time for study, or advance conditions one hour in time every few minutes to watch the progress. Date and time show on screen.



Night/Day Boundary & Data For Any Date & Time

The program can be used for planning observations or night-time activities or as an educational resource about the solar system and the seasons.

IBM & Compatibles, Apple II family, Commodore 64/128

#### PHYSICALC™ Introduction to the Concepts of Physics

The major areas of mechanics, gravity, light, quantum mechanics, and relativity are reviewed and explained. 30 key equations of physics are presented, which can easily be used on screen for calculations. The material is suitable for anyone 9th grade and up who is interested in physics, to use at home or in the classroom. Other features include:

- \* Set of physics problems (with solutions) to test understanding of the material presented and demonstrate applications.
- \* Illustrations to provide explanations of concepts and clarify the material.(no graphics required)
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Equations of Electricity Applied

\* Glossary on screen of physics terms, plus a brief history of physics and physicists.

The program is easy to use with a main menu to select activities so you can proceed at your own pace. The material is well organized for review after initial learning is completed.

The intent of PHYSICALC is to provide an introductory survey of the world of physics. The student develops a "feel" for what physics is about and why it is useful and intellectually stimulating. PHYSICALC can point the way to further exploration of topics of special interest to the student.

IBM & Compatibles, Apple II family (with 80 column screen)

\$29.95

#### **BIO\*CELL™** Introduction to the Biology of Cells

The major cell structures for plants and animals are illustrated and the function of each organelle is explained. A survey of the various types of cells that make up plants and animals is provided. The material is suitable for anyone 7th grade and up. Other features include:

- \* Testing of student knowledge of cell structure and suggested activities to review understanding.
- \* Introduction to genetics, the structure of the DNA molecule and how it codes genetic information.
- \* Glossary on screen of biological terms related to cells, plus background on how the study of cells developed.

Structure discovered by Wetson & Crick in 1993
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DNA Illustrated & Explained

The program is easy to use and you can proceed at your own pace.

IBM & Compatibles, Apple II family (with 80 column display)

\$29.95

# Join Our Thousands of Satisfied Customers!

#### VOCABULATOR™ To Increase Your Vocabulary!

The program comes with a built-in vocabulary with 4 levels of increasing difficulty. You choose the level and then have the option of multiple choice testing or a quick flash card method. The multiple choice method counts the number of words used and the score of correct answers. Nearly 1000 key words are available in the program.

The words in each level are presented in random, non-repeating sequences so that the presentation is different each time the program is used. This is an efficient and easy way to increase your vocabulary.



Multiple Choice Testing Mode

You can also add words to a personal vocabulary list (saved on disk) and build a collection of words you wish to master. Just minutes a day with the built-in vocabulary and your own list and you will develop an excellent command of the language! (Some interesting background information on vocabulary is provided.)

VOCABULATOR is useful in the classroom or at home, for ages from middle school to adult (the highest level is challenging!). The personal list can be used for foreign language drill if desired, by entering English words with their foreign equivalents. Anyone interested in a better vocabulary will benefit from this program.

"Recommended: Excellent, non-intimidating program"- Electronic Learning Magazine

IBM & Compatibles, Apple II family

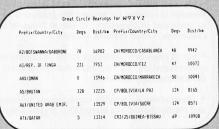
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#### BEARINGS™ Which Way Do We Go from Here?

This program is for pilots, skippers, radio amateurs or anyone needing to know precise bearings or great circle directions from one location to another. It's also an interesting lesson in geography.

You input latitude and longitude and then the computer calculates and prints out directions and distances to over 500 locations around the globe. The usual azimuth system is used, with 0 degrees as north, 90 as east, 180 as south, 270 as west, etc.

Great for aligning your antenna to pull in those DX stations, or for navigators (real or armchair). Find out which way to go to get to Bora-Bora from your house! Output is ordered by country and city and includes.



Directions and Distances to All the Globe!

amateur prefixes for each region. An interesting and useful program that can be used in conjunction with the WorldDisk program.

IBM & Compatibles, Apple II family, any 80 column printer

\$19.95



#### New!

#### TimeTeacher™ It's Fun to Learn to Tell Time!

TimeTeacher provides four games that teach children how to tell time. With the color graphics, animation and music, your child will have real fun while learning! It's very easy to use and provides positive reinforcement for good performance. TimeTeacher is for all kids who are ready to start to tell time or need to improve their skills.

TimeTeacher has four games to play. The Clock Struck game shows the clock ticking which stops and the child enters the time (with 4 difficulty levels). The timed version is a race to enter the right answer before the mouse eats the cheese!



Color, Animation and Music Make Learning Fun!

Set the Clock game has the child set the screen clock to the time given (4 difficulty levels). Julie Jaybird keeps score and lays eggs for right answers. Before and After concentrates on time before and after the hour (4 levels), with Johnnie Jumper hopping across the lily pads to keep score. Time to Learn is a tutorial for beginners to get used to the clock and moving the hands; a caterpillar helps out the student (4 levels of difficulty).

Each game includes a test mode for the child to play against time or the computer. But the use of TimeTeacher is really just to have fun, with the learning as a bonus!

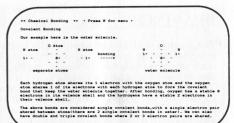
IBM & Compatibles with CGA or EGA graphics.

\$29.95

#### **CHEMICALC™** Introduction to the Concepts of Chemistry

The major topics of atoms & molecules, chemical reactions, gas laws, periodic table, solutions and acids and bases are reviewed and explained. The material is suitable for anyone 9th grade and up who is interested in chemistry, to use at home or in the classroom. Other features include:

- \* Set of chemistry problems (with solutions) to test understanding of the material presented and demonstrate applications.
- \* Illustrations to provide explanations of concepts and clarify the subject matter.(No graphics needed)



How Covalent Bonding Works

\* Glossary on screen of chemistry terms, plus brief history of chemistry and chemists.

The program uses a main menu to select activities so you can proceed at your own pace of learning. The material is well organized to use for review after initial learning is completed.

IBM & Compatibles, Apple II family(with 80 column screen)

\$29.95

#### Our 6th Year of Publishing Quality Software

#### WORLDDISK™ All the Countries of the World on a Disk!

Mem;

WorldDisk provides all fundamental data for all the countries of the world on a diskette. The data presented includes population, area, percent literacy, GNP total and per capita, the languages spoken, and major religions. There is also data on the imports/exports of the country and a thumb-nail sketch of the history and culture, as well as other information such as regional location and the capital city.

The program can be used by selecting individual countries for review in detail or as a reference. You may also use the comparison mode which allows several countries on the screen at once to compare their vital statistics such as populations, economy etc. The data can be sorted for meaningful comparisons or rankings.

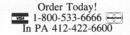


Basic Data & Comparisons Among 160 Countries

WorldDisk is valuable as an educational tool as it makes it very easy and fun to explore and compare the countries of the world. Your children will be fascinated with the variety of our nations. Or use it as a handy reference work.

IBM & Compatibles, Apple II family

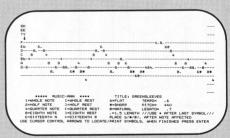
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#### MUSICMAN™ Compose & Play Music on Your Computer

With MUSICMAN you can try your hand at composing music right on the screen with standard musical methods. When finished, press a key and hear your music played. You can save your compositions on disk to replay or modify later. Or listen to any of the ready to play tunes provided with the program.

On screen you see a musical staff of 5 lines (and 2 partial ledger lines above and below) where you place the notes you want to play. You can use whole, half, quarter, eighth or sixteenth notes or rests. The notes can be dotted for extended duration.



Compose on Screen, Save to Disk

You may set any key you want for your composition. Accidental sharps and flats can be placed wherever you need them.

Once your basic composition is done, you can then change tempo (fast to slow) and pitch (above or below the standard A = 440). You can also control the degree of legato effect, if desired. You've got all the basics of musical composition at your fingertips. Use all the variations you need to perfect your music.

MUSICMAN will have you taking on Gershwin, Bach or the Beatles. It's fun and easy to use.

MUSICMAN is useful in the classroom or at home, for ages from grade school to adult for anyone interested in music.

IBM & Compatibles, Apple II family(with 80 column screen)

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**TIMETEACHER** - Teaches your kids to learn to tell time by playing 4 fun games with color graphics, animation and music. Your kids will love playing with Julie Jaybird, Johnnie Jumper and others. Skill level adjustable. Page 22.



TIDEMASTER - Get accurate tide data, tables and charts, for any day in 1987 or 1988. Perfect for boaters, fishermen & sailors! Available for any U.S. coastal state. Over 2000 NOAA locations covered. With detailed manual. Page 6.



ASTROFINDER - Planetarium and star chart maker! For your date, time and location get realistic simulation of sky on screen. Has built-in deep-sky objects, planets, etc, Print out accurate star charts & more! Page 15.

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