S. ROBERT

The Fourth Book of OHIO SCIENTIFIC

VIP Very Important Programs for OHIO SCIENTIFIC

TABLE of CONTENTS

USEFUL PROGRAMS 1
RAM Test 3
Memory Test 5
Hex Dump in BASIC 6
Joystick for C1P 8
Array Search 10
Memory Map 11

GAMES 27
Archery 29
Ayatollah 33
Ball Dance 38
Black Box 41
Concentration 45
Magic Square 48
Mickey Mouse 50
Space Shuttle 52
Tank in a Trap 55
Turnabout 57

PERSONAL UTILITIES 59
Dollar Converter 61
Calorie Counter 62
Speed vs. Gasoline Consumption 65
Gasoline Consumption vs. Speed 67
German Vocabulary 69
Astrology 72
Intra-Ocular Lens Power 75

HINTS AND INSTRUCTIONS 77
Tape/Disk - Disk/Tape Transfer 79
Two Computer Interface RS-232 to RS-232 80
POKE and PEEK 81
Self-starting BASIC Program 82
STOP 83
Important Tip 83
USR(X) for Fast Screen Clear 84
Another Fast Screen Clear 85

USEFUL MATH ROUTINES 87
Determinant Programms 89
Matrix Multiplication 95
Classical Adjunct 97
Matrix Inversion 99
Peculiar Value of 3/3 Matrix 101
System of Linear Equations 103
Co-ordinant Transformation 105
Geometry 107
Calculation of PI 112
Number Converter 114
Sorting (Binary Tree) 115
Numerical Differentiation 118
Numerical Integration (Simpson) 119
Differential Equation 120
Prime Factors 126
Pythagorean Numbers 128
Decibel Program 129
Histograms 130
Regression Analysis 131
Simple Statistics 133
Function Plot 135
Precipitation 137