

THE FIBONACCI QUARTERLY

THE OFFICIAL JOURNAL OF
THE FIBONACCI ASSOCIATION

VOLUME 6



NUMBER 1

CONTENTS

PART I — ADVANCED

A Fibonacci Function	<i>Francis D. Parker</i>	1
Factorization of 2×2 Integral Matrices With Determinant ± 1	<i>Gene B. Gale</i>	3
On a Partition of Generalized Fibonacci Numbers	<i>S. G. Mohanty</i>	22
A Combinatorial Problem Involving Fibonacci Numbers	<i>J. L. Brown, Jr.</i>	34
Circularly Generated Abelian Groups.	<i>David A. Smith</i>	36
Conjugate Generalized Fibonacci Sequences	<i>Charles H. King</i>	46
Advanced Problems and Solutions	<i>Edited by Raymond E. Whitney</i>	50

PART II — ELEMENTARY

	<i>Brother</i>	
Recreation Corner - Solution to Population Explosion	<i>Alfred Brousseau</i>	58
Recreational Mathematics	<i>Joseph S. Madachy</i>	60
On the Trail of the California Pine	<i>Brother Alfred Brousseau</i>	69
A Magic Square Involving Fibonacci Numbers	<i>Herta T. Freitag</i>	77
A Sequence of Power Formulas	<i>Brother Alfred Brousseau</i>	81
Book Review	<i>Brother Alfred Brousseau</i>	84
The Fibonacci Drawing Board — Design of the Great Pyramid of Gizeh	<i>Col. R. S. Beard</i>	85
Book Review	<i>Howard Eves</i>	88
Elementary Problems and Solutions	<i>Edited by A. P. Hillman</i>	89

FEBRUARY

1968

THE FIBONACCI QUARTERLY

OFFICIAL ORGAN OF THE FIBONACCI ASSOCIATION

*A JOURNAL DEVOTED TO THE
STUDY OF INTEGERS WITH SPECIAL PROPERTIES*

EDITORIAL BOARD

Brother U. Alfred	V. E. Hoggatt, Jr.
H. L. Alder	Donald E. Knuth
Marjorie Bicknell	Douglas A. Lind
John L. Brown, Jr.	C. T. Long
L. Carlitz	Leo Moser
H. W. Gould	I. D. Ruggles
A. P. Hillman	D. E. Thoro

WITH THE COOPERATION OF

P. M. Anselone	Charles H. King
Terry Brennan	L. H. Lange
Maxey Brooke	Douglas Lind
Paul F. Byrd	James Maxwell
Calvin D. Crabill	Sister M. de Sales McNabb
H. W. Eves	C. D. Olds
John H. Halton	D. W. Robinson
Richard A. Hayes	Azriel Rosenfeld
A. F. Horadam	M. N. S. Swamy
Dov Jarden	John E. Vinson
Stephen Jerbic	Lloyd Walker
R. P. Kelisky	Charles R. Wall

The California Mathematics Council

All subscription correspondence should be addressed to Brother U. Alfred, St. Mary's College, Calif. All checks (\$4.00 per year) should be made out to the Fibonacci Association or the Fibonacci Quarterly. Manuscripts intended for publication in the Quarterly should be sent to Verner E. Hoggatt, Jr., Mathematics Department, San Jose State College, San Jose, Calif. All manuscripts should be typed, double-spaced. Drawings should be made the same size as they will appear in the Quarterly, and should be done in India ink on either vellum or bond paper. Authors should keep a copy of the manuscript sent to the editors.

The Quarterly is entered as third-class mail at the St. Mary's College Post Office, California, as an official publication of the Fibonacci Association.