

THE FIBONACCI QUARTERLY

THE OFFICIAL JOURNAL OF
THE FIBONACCI ASSOCIATION

DALHOUSIE
LIBRARY

MAR 24 1967

SERIALS DEPT.

VOLUME 5



NUMBER 1

CONTENTS

PART I — ADVANCED

ON SUMMATION FORMULAS AND IDENTITIES FOR FIBONACCI NUMBERS	<i>David Zeitlin</i>	1
THE Q MATRIX AS A COUNTEREXAMPLE IN GROUP THEORY	<i>D. A. Lind</i>	44
ON A CERTAIN KIND OF FIBONACCI SUMS.	<i>George Ledin, Jr.</i>	45
LATTICE POINT SOLUTION OF THE GENERALIZED PROBLEM OF TERQUEM AND AN EXTENSION OF FIBONACCI NUMBERS.	<i>C. A. Church, Jr. and H. W. Gould</i>	59
ADVANCED PROBLEMS AND SOLUTIONS	<i>Edited by Verner E. Hoggatt, Jr.</i>	69

PART II — ELEMENTARY

RELATIONS INVOLVING LATTICE PATHS AND CERTAIN SEQUENCES OF INTEGERS	<i>Douglas R. Stocks, Jr.</i>	81
CHAINS OF EQUIVALENT FIBONACCI-WISE TRIANGLE	<i>Dewey C. Duncan</i>	87
ITERATED FIBONACCI AND LUCAS SUBSCRIPTS.	<i>D. A. Lind</i>	89
SUMMATION OF $\sum_{k=1}^n k^m F_{k+r}$ FINITE DIFFERENCE APPROACH.	<i>Brother Alfred Brousseau</i>	91
ON RATIOS OF FIBONACCI AND LUCAS NUMBERS	<i>G. F. Feeman</i>	99
ELEMENTARY PROBLEMS AND SOLUTIONS	<i>Edited by A. P. Hillman</i>	107

FEBRUARY

1967

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	M. N. S. Swamy
	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.