

AN INVESTIGATION OF THE DIRECTION
OF INITIAL MOTIONS AND
SOME CHARACTERISTICS OF WAVES
FROM MEXICAN EARTHQUAKES, AS RECORDED
AT SAINT LOUIS AND FLORISSANT, MISSOURI

by

DANIEL H. WALSH, B.S.

Thesis Presented to the Faculty of the
Graduate School of Saint Louis University in
Partial Fulfillment of the Requirements for the
Degree of Master of Science,
(Research)

1951

TABLE OF CONTENTS

	Page
LIST OF TABLES	v
LIST OF ILLUSTRATIONS	vii
 Chapter	
I. INTRODUCTION AND REVIEW OF PREVIOUS WORK	1
Review of Previous Work	
II. STATEMENT OF THE PRESENT PROBLEM	18
III. MEXICAN EARTHQUAKE INFORMATION AND DESCRIPTION OF THE RECORDED P AND S	22
Choice of Information	
Brief Description of the Recorded	
Primary Phases	
IV. DIRECTIONS OF INITIAL MOTION	54
Initial P Motion	
Initial S Motion	
V. PROBABLE FAULT MOVEMENTS OF THE MEXICAN PACIFIC COAST REGION	109
Physiography of Mexico	
Geologic History	
Seismicity and Structure of the	
Mexican Pacific Coast	
Proposed Faulting	
Summary	

TABLE OF CONTENTS (Con't.)

BIBLIOGRAPHY	Page 165
ACKNOWLEDGEMENTS.....	182
VITA AUCTORIS	183