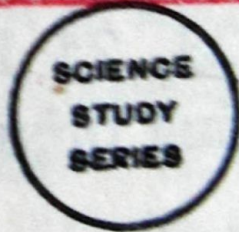
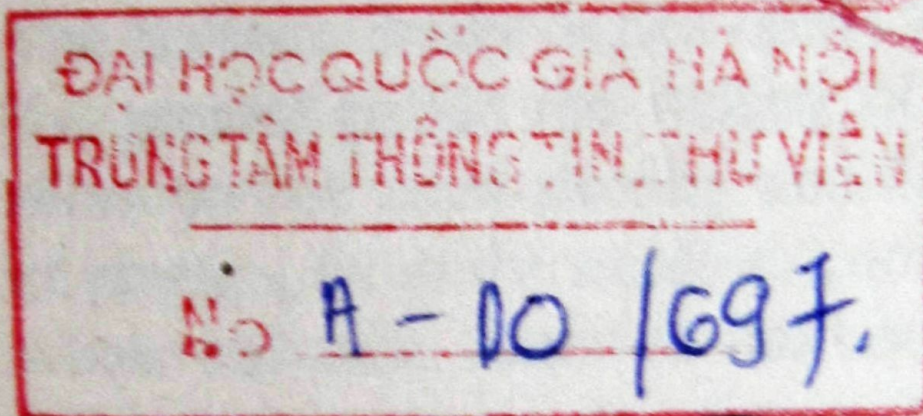


557
HUR
1959

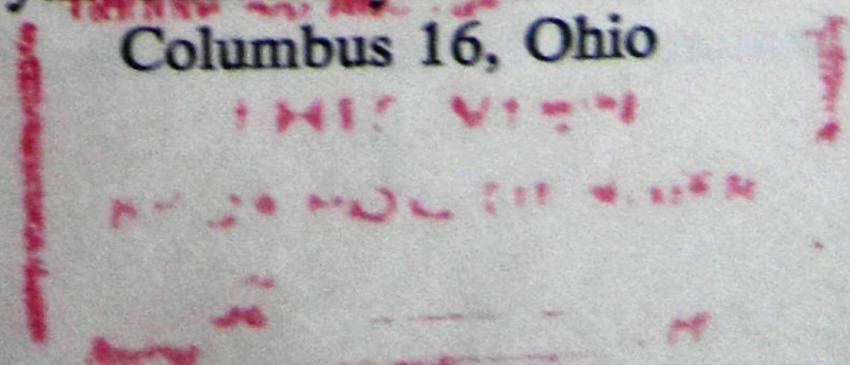
HOW OLD IS THE EARTH?

Patrick M. Hurley



Published by
Anchor Books
Doubleday & Company, Inc.
Garden City, New York
1959

Available to secondary school
students and teachers through
Wesleyan University Press Incorporated
Columbus 16, Ohio



CONTENTS

The Science Study Series	7
Introduction	11
I The Structure of the Earth	15
<i>How We Have Learned about the Earth's Interior—The Earth's Crust—Mountains and Volcanoes</i>	
II Radioactivity	39
<i>Radioactive Fallout—Radiation and Particles—Absorption of Gamma Rays—Alpha and Beta Particles, and Heat</i>	
III The Radioactive Earth	60
<i>The Major Heat-Producing Elements—Migrations through the Mantle</i>	
IV Measurement of Absolute Geologic Time	71
<i>Relative Time Scale of the Planet's History—Principles of Geologic Time Measurement—Parent and Daughter Isotopes—History of Age Measurements—Techniques and Instruments—Present-Day Methods—The Carbon 14 Method</i>	

CONTENTS

V	Memorable Dates in Earth History	110
	<i>Life and Evolution—The Ice Ages —Man's Early History—Carbon 14 and a Cave</i>	
VI	The Earth's Beginnings	134
	<i>Nuclear Fires of the Sun—Origin of the Elements—From a Cloud of Dust—The Answer</i>	
	Bibliography	153
	Index	155