

Philosophy Science



VOLUME 17, NUMBER 2

Published Quarterly by The Williams & Wilkins Company, Baltimore-2, Maryland

April, 1950

PHILOSOPHY OF SCIENCE

ORGAN OF THE PHILOSOPHY OF SCIENCE ASSOCIATION

FOUNDED BY

WILLIAM MARIAS MALISOFF

EDITOR, C. WEST CHURCHMAN

in collaboration with

The Governing Committee of the Philosophy of Science Association:

PHILIPP FRANK F. S. C. NORTHROP

GUSTAV BERGMANN ROBERT K. MERTON

SEBASTIAN LITTAUER

WALTER KAHOE

HENRY MARGENAU

Book Reviews

RUSSELL L. ACKOFF

FRANK E. HARTUNG

Advisory Board

ERIC T. BELL A. C. BENJAMIN NIELS BOHR RUDOLF CARNAP W. I. Crozier C. J. DUCASSE ALBERT EINSTEIN HERBERT FEIGL R. A. FISHER R. W. GERARD J. B. S. HALDANE L. INFELD EDA MALISOFF KAHANAS

W. KOHLER

I. LANGMUTE

R. S. LILLIE W. P. MONTAGUE CHARLES W. MORRIS JOSEPH NEEDHAM HANS REICHENBACH OLIVER L. REISER O. K. RICE D. Runes C. E. SEASHORE H. SHAPLEY EDGAR A. SINGER

DIRK J. STRUIK M. S. VALLARTA PAUL WEISS

N. WEINER F. Z. ZWICKY

Sustaining Institutions: Wayne University and State University of Iowa

Entered as second class matter November 25, 1933, at the Post Office, at Baltimore, Maryland, under the Act of March 3, 1879.

Made in United States of America

Philosophy of Science

VOL. 17

April, 1950

NO. 2



CONTENTS

A Five-Fold Skepticism in Logical Empiricism. Carleton Berenda	123
The Behavioral Dimension of Prediction and Meaning. David L. Miller	133
Whitehead's Method of Extensive Abstraction. Nathaniel Lawrence	142
Symposium: Existential Hypotheses Logical Reconstructionism. C. West Churchman -	164
Comments on Realistic versus Phenomenalistic Interpretations. Philipp Frank	
A Note on Semantic Realism. Carl G. Hempel - Science and Semantic Realism. Ernest Nagel	
1 0	182
Logical Reconstruction, Realism and Pure Semiotic. Herbert Feigl	186
Book Reviews:	
	196
Alice Ambrose and Morris Lazerowitz's Fundamen- tals of Symbolic Logic. Irving Copi	199
Ludwig von Bertalanffy's Das biologische Weltbild. Band I. Die Stellung des Lebens in Natur und	
Wissenschaft. Ernst J. Denfeld Benjamin Wolstein's Experience and valuation: A	200
study in John Dewey's naturalism. George R. Geiger	
	202
George Sarton's The Life of Science. George A. Lundberg	202
George Sarton's The Life of Science. George A. Lundberg	
George Sarton's The Life of Science. George A. Lundberg George K. Zipf's Human Behavior and the Principle	

Copyright 1950, The Williams & Wilkins Company

OUT OF MY LATER YEARS

ALBERT ÉINSTEIN

THIS IS THE FIRST new collection of papers, since 1936, by the eminent physicist. A considerable number of these essays have never been published before in any language.

In any language.
From the Contents
The Theory of Relativity
Time, Space and Gravitation
Physics and Reality
The Fundaments of Theoretical Physics

The Common Language of Science The Laws of Science and the Laws of Ethics

An Elementary Derivation of the Equivalence of Mass and Energy quivalence of Mass and Energ Science and Civilization A Message to Intellectuals A Reply to Soviet Scientists Atomic War or Peace Military Intrusion in Science Newton Johannes Ke Johannes Kepler Max Planck Walther Nernst Isaac Newton Paul Langevin

Paul Ehrenfest PHILOSOPHICAL LIBRARY

Publishers 15 E. 40th St., Dept. 388, New York 16, N.Y.

(Expedite Shipment by enclosing remittance)

REFLECTIONS A PHYSICIST

by

P. W. BRIDGMAN

This collection comprises the bulk of the non-technical writings of Dr. Bridgman together with three papers here published for the first time. The topics range over a considerable field, but there is a certain unity in the treatment in that the "operational" approach is used throughout. It is this approach which has made possible the successes of modern physics in meeting revolutionary new physical situations. The present collection may be regarded as an extension of the operational approach to problems in other fields than physics, including those problems created by the increasingly important social role which science is coming to play. \$5.00

PHILOSOPHICAL LIBRARY, **PUBLISHERS**

15 E. 40th St., Dept. 388, New York 16, N. Y.

(Expedite shipment by enclosing remittance)

New and Valuable Reference Work

Encyclopedia of MEDICAL SOURCES By EMERSON CROSBY KELLY,

M.D., F.A.C.S. Associate Professor of Surgery, Albany Medical College, Editor, Medical Classics

After several experiences in finding errors or incomplete information in references to original work, Dr. Kelly began to keep a list of references to medical eponyms and original investigations. The present compilation is the outgrowth of this list. In it he gives accurately with title and complete reference, the outstanding contributions to medical science, together with medical eponyms such as culture media, methods, signs, syndromes, etc. In all, the list includes over 5000 names and 150,000 references. More than ninety percent of the papers have been consulted in the original. The index includes disorders, operations, etc., and provides in effect a completely cross-referenced volume of medical sources. Not only will the book be of great use to medical students and practicing physicians, but librarians and research workers will find it invaluable.

THE WILLIAMS & WILKINS COMPANY Baltimore 2, Maryland Mt. Royal and Guilford Aves.