

# **Philosophy of Science**

**Volume 20  
1953**

**Reprinted with the permission of the original publisher  
by  
Periodicals Service Company  
Hudson, NY  
2021**

**Printed on acid-free paper.**

**This reprint was reproduced from the  
best original edition copy available.**

**NOTE TO THE REPRINT EDITION:**

**In some cases full page advertisements which do not add to  
the scholarly value of this volume have been omitted.  
As a result, some reprinted volumes may have irregular pagination.**

# Philosophy of Science

*VOLUME XX*



BALTIMORE, MARYLAND

1953

# Philosophy of Science

VOL. 20

January, 1953

NO. I



## CONTENTS

The Scientist <i>Qua</i> Scientist makes Value Judgments. Richard Rudner - - - - -	I
A Reformation of Bergson's Theory of Memory. Walter M. Elsasser - - - - -	7
What is this Crisis? Read Bain - - - - -	22
A Whiteheadian Theory of Meaning. Martin A. Greenman - - - - -	31
Rhythmic Activity of the Nervous System. Harry A. Teitelbaum - - - - -	42
Toward a Philosophy of Operations Research. Gerard Hinrichs - - - - -	59
Causes and Effects. Walter Fales - - - - -	67
Discussion:	
The Relativity of Reality. A. Bachem- - -	75
Book Reviews	
Carola Baumgart's <i>Johannes Kepler: Life and Letters</i> . Harvey Cohn - - - - -	79
<i>Logic and Language: A Collection of Philosophical Articles</i> . Edited by A. G. N. Flew. Irving M. Copi - - - - -	79
N. O. Lossky's <i>History of Russian Philosophy</i> . R. L. A. - - - - -	80
Frederick Mayer's <i>A History of Ancient and Medieval Philosophy</i> . R. L. A. - - -	80
R. B. Kershner and L. R. Wilcox's <i>The Anatomy of Mathematics</i> . C. W. C. - - - -	81
Michael Polany's <i>The Logic of Liberty</i> . Leonard Linsky - - - - -	81
<i>Philosophic Thought in France and the United States</i> . Edited by Marvin Farber. Thomas Cowan - - - - -	81
Baker Brownell's <i>The Human Community</i> . Keith McGary - - - - -	82
G. Burniston Brown's <i>Science: Its Method and Its Philosophy</i> . Cornelius L. Golightly -	83

Copyright 1953, The Williams & Wilkins Company

# PHILOSOPHY OF SCIENCE

ORGAN OF THE PHILOSOPHY OF SCIENCE ASSOCIATION

FOUNDED BY

WILLIAM MARIAS MALISOFF

EDITOR, C. WEST CHURCHMAN

*in collaboration with*

GUSTAV BERGMANN

HENRY MARGENAU

The Governing Committee of the Philosophy of Science Association:

PHILIPP FRANK

GUSTAV BERGMANN

F. S. C. NORTHROP

ROBERT K. MERTON

SEBASTIAN LITTAUER

WALTER KAHOE

HENRY MARGENAU

*Book Reviews*

RUSSELL L. ACKOFF

FRANK E. HARTUNG

*Advisory Board*

ERIC T. BELL

R. S. LILLIE

A. C. BENJAMIN

W. P. MONTAGUE

NIELS BOHR

CHARLES W. MORRIS

RUDOLF CARNAP

JOSEPH NEEDHAM

W. J. CROZIER

HANS REICHENBACH

C. J. DUCASSE

OLIVER L. REISER

ALBERT EINSTEIN

O. K. RICE

HERBERT FEIGL

D. RUNES

R. A. FISHER

H. SHAPLEY

R. W. GERARD

EDGAR A. SINGER

J. B. S. HALDANE

DIRK J. STRUIK

L. INFELD

M. S. VALLARTA

EDA MALISOFF KAHANAS

PAUL WEISS

W. KOHLER

N. WIENER

I. LANGMUIR

F. Z. ZWICKY

Sustaining Institutions: Wayne University and State University of Iowa