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The work of Galileo has long been important not only as a foundation of modern physics but also as a model - and perhaps the paradigmatic model - of scientific method, and therefore as a leading example of scientific rationality. However, as we know, the matter is not so simple. The range of Galileo readings is so varied that one may be led to the conclusion that it is a case of chacun a son Galileo; that here, as with the Bible, or Plato or Kant or Freud or Finnegans Wake, the texts themselves underdetermine just what moral is to be pointed. But if there is no canonical reading, how can the texts be taken as evidence or example of a canonical view of scientific rationality, as in Galileo? Or is it the case, instead, that we decide a priori what the norms of rationality are and then pick through texts to find those which satisfy these norms? Specifically, how and on what grounds are we to accept or reject scientific theories, or scientific reasoning? If we are to do this on the basis of historical analysis of how, in fact, theories came to be accepted or rejected, how shall we distinguish 'is' from 'ought'? What follows (if anything does) from such analysis or reconstruction about how theories ought to be accepted or rejected? Maurice Finocchiaro's study of Galileo brings an important and original approach to the question of scientific rationality by way of a systematic read This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive

and relevant. This is the first of two volumes comprising the papers submitted for publication by the invited participants to the Tenth International Congress of Logic, Methodology and Philosophy of Science, held in Florence, August 1995. The Congress was held under the auspices of the International Union of History and Philosophy of Science, Division of Logic, Methodology and Philosophy of Science. The invited lectures published in the two volumes demonstrate much of what goes on in the fields of the Congress and give the state of the art of current research. The two volumes cover the traditional subdisciplines of mathematical logic and philosophical logic, as well as their interfaces with computer science, linguistics and philosophy. Philosophy of science is broadly represented, too, including general issues of natural sciences, social sciences and humanities. The papers in Volume One are concerned with logic, mathematical logic, the philosophy of logic and mathematics, and computer science. "This introduction to Logic and Critical Thinking combines both formal and informal techniques of logic. It enhances students' intellectual self-confidence through improved skill in recognizing the differences between valid and invalid reasoning. Developed, refined, and progressively field-tested during over 20 years of classroom use, these simple, practical, but rigorous techniques are applicable to a variety of intellectual contexts, including moral, scientific, and everyday reasoning. The text is illustrated by inherently interesting examples and supplemented by numerous exercises, all emphasizing awareness of the nature of logical fallacies."--BOOK JACKET. Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

Concise and readable, this introductory treatment examines logic and the concept of abstract reasoning as applied to the empirical world, as well as logic and statistical method, probability, scientific models, and more. 1944 edition. The Conduct of Inquiry is a practical introduction to logic and scientific method. It provides a comprehensive and current discussion of the logic of scientific method and scientific reasoning. The author places consistent stress on the evaluation of actual scientific reasoning and the development of critical thinking skills by employing numerous examples that require the application of the principles discussed in the text. Each chapter lays out basic, underlying principles of logic and scientific method and illustrates them by reference to detailed case studies in the history of science. The method of proceeding from concrete case studies to general principle embodied in the examples provides an understandable progression for those learning the basic ideas of logic and scientific method. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. Many of the

earliest books, particularly those dating back to the 1900s and before, are now extremely scarce and increasingly expensive. We are republishing these classic works in affordable, high quality, modern editions, using the original text and artwork. A textbook on the principles of logical reasoning and scientific method, including chapters covering topics such as argumentation, inductive and deductive reasoning, and scientific observation and experimentation. The book is intended for students of philosophy, logic, and the natural sciences. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work is in the "public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. Described by the philosopher A.J. Ayer as a work of 'great originality and power', this book revolutionized contemporary thinking on science and knowledge. Ideas such as the now legendary doctrine of 'falsificationism' electrified the scientific community, influencing even working scientists, as well as post-war philosophy. This astonishing work ranks alongside *The Open Society and Its Enemies* as one of Popper's most enduring books and contains insights and arguments that demand to be read to this day. Originally published in 1926, this book was written in the first instance for the benefit of those students of Logic and Scientific Method who receive insufficient or no help in the way of oral instruction. The main function of the following pages is to deal with the exercises, as distinguished from the book-questions. It includes chapters on the scope of logic, theory of judgment and immediate inference, and theory of induction. Unlike some other reproductions of classic texts (1) We have not used OCR(Optical Character Recognition), as this leads to bad quality books with introduced typos. (2) In books where there are images such as portraits, maps, sketches etc We have endeavoured to keep the quality of these images, so they represent accurately the original artefact. Although occasionally there may be certain imperfections with these old texts, we feel they deserve to be made available for future generations to enjoy. This book has been considered by academicians and scholars of great significance and value to literature. This forms a part of the knowledge base for future generations. So that the book is never forgotten we have represented this book in a print format as the same form as it was originally first published. Hence any marks or annotations seen are left intentionally to preserve its true nature. I have tried to make this book an argument, not a catalogue of dogmas. Its ideal reader will find himself constantly asking questions, for which he will insist on finding his own answers. To avoid wasting his time, I have made the fullest use of authentic illustrations from newspapers, books, and other contemporary sources. One of the wisest things ever said about our subject is that "Logic, like whiskey, loses its beneficial effect when taken in too large doses." While bearing this constantly in mind, I have also aimed at a high level of accuracy and the inclusion of nothing that would have to be unlearned at a more advanced level of study. This book could never have been written without the help of the students to whom I have lectured on logic and scientific method. My chief obligations are to them. Logic ought to be easy, interesting, and enjoyable. This book will have been successful if it helps some readers to find it so.—Prof. Max Black This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. 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collection; for example, what do we say about observational reports of the existence of UFOs? In this context there is a discussion of some of the issues raised in the so-called science wars. It is concluded that the sociology of science can at times be helpful to the scientific community in improving their methods of investigation. This volume is the product of the Proceedings of the 9th International Congress of Logic, Methodology and Philosophy of Science and contains the text of most of the invited lectures. Divided into 15 sections, the book covers a wide range of different issues. The reader is given the opportunity to learn about the latest thinking in relevant areas other than those in which they themselves may normally specialise. This is the first of two volumes comprising the papers submitted for publication by the invited participants to the Tenth International Congress of Logic, Methodology and Philosophy of Science, held in Florence, August 1995. The Congress was held under the auspices of the International Union of History and Philosophy of Science, Division of Logic, Methodology and Philosophy of Science. The invited lectures published in the two volumes demonstrate much of what goes on in the fields of the Congress and give the state of the art of current research. The two volumes cover the traditional subdisciplines of mathematical logic and philosophical logic, as well as their interfaces with computer science, linguistics and philosophy. Philosophy of science is broadly represented, too, including general issues of natural sciences, social sciences and humanities. The papers in Volume One are concerned with logic, mathematical logic, the philosophy of logic and mathematics, and computer science. As the gateway to scientific thinking, an understanding of the scientific method is essential for success and productivity in science. This book is the first synthesis of the practice and the philosophy of the scientific method. It will enable scientists to be better scientists by offering them a deeper understanding of the underpinnings of the scientific method, thereby leading to more productive research and experimentation. It will also give scientists a more accurate perspective on the rationality of the scientific approach and its role in society. Beginning with a discussion of today's 'science wars' and science's presuppositions, the book then explores deductive and inductive logic, probability, statistics, and parsimony, and concludes with an examination of science's powers and limits, and a look at science education. Topics relevant to a variety of disciplines are treated, and clarifying figures, case studies, and chapter summaries enhance the pedagogy. This adeptly executed, comprehensive, yet pragmatic work yields a new synergy suitable for scientists and instructors, and graduate students and advanced undergraduates. The subject of this book is limited to the abstract form or "logic" of science, as applied particularly to scientific sociology. But the discussion presented here goes beyond abstraction and serves a practical role in the sociology and history of science by providing a framework for reducing the enormous variety of scientific

researches-both within a given field and across all fields-to a limited number of interrelated formal elements. Such a framework may prove useful in assessing empirical relationships between the formal aspects of scientific work and its substantive social, economic, political, and historical aspects. This is a work of synthesis that merits close attention. It provides an area for viewing theory as something more than a review of the history of any single social science discipline.

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