

BOOK REVIEWS

THE MATTER OF LIFE: PHILOSOPHICAL PROBLEMS OF BIOLOGY. By Michael A. Simon. New Haven and London: Yale University Press; Montreal: McGill - Queen's University Press. 1971. Pp. xi, 258. \$7.50.

It is a pleasure to recommend a new work devoted exclusively to the philosophy of biology, by an author who has obviously worked hard to make himself cognizant of important historical and contemporary aspects of his subject science. *The Matter of Life* can rightly take its place with its very few predecessors (such as T.A. Goudge's *The Ascent of Life*).

Simon's work is divided into five chapters. The first chapter, "Biology as Science," is concerned with the sense of the word "science" proper to biology. In particular, Simon asks whether biology is or can be a science in quite the manner that physics is a science. J.J.C. Smart maintains that biology cannot be such a science for the simple reason that it has no genuine laws of its own—so-called "biological laws" being not really biological if they are laws and not really laws if they are biological. Simon considers Smart's thesis and then, in his second chapter "Biological Explanation," he tackles the question whether biological explanations are always in some important sense explanations of the kind that one finds in the physical sciences (that is, so-called "covering-law" explanations, which are in principle capable of bearing predictions), or whether, as Goudge and M. Scriven have claimed, biology has its own distinctive forms of explanation—forms which are explanatory without being potentially predictive. Simon takes a moderate middle-of-the-road position: he disputes Smart's claim about the non-existence of biological laws and seems sympathetic to Scriven's claims about the distinctiveness of certain kinds of biological explanation.

Simon's third chapter, "Theories, Models, and the Concept of the Gene," traces in some detail the history of the gene-concept, from Mendel's factors to the modern molecular, DNA model. This historical discussion is used to justify certain philosophical conclusions as to the way in which scientific concepts change and the legitimacy of a hard-line division between "theoretical" and "observational" concepts. The next chapter, "The Presuppositions of Biological Science," asks what is involved in treating organisms as machines, discusses the problem of emergence (How are we to account for the occurrence on higher levels of organization of properties which have never appeared on a lower level?), and raises various questions concerning the place of teleological thinking in biology. Finally, the fifth chapter—"The Extensions of Biological Thought"—deals with more metaphysical

Matter Of Life Philosophical Problems Of Biology

S Ashworth



Matter Of Life Philosophical Problems Of Biology:

The Matter of Life Michael A. Simon, **Philosophical Problems of Modern Biology** Jan Kamaryt, 1965 **The Matter of Life** Edmund Ware Sinnott, Michael A. Simon, 1950 **Investigating the Life Sciences** G. M. N. Verschuuren, 2016-07-29 A unique introduction to the philosophy of science with special emphasis on the life sciences Part I presents elementary but fundamental concepts and problems in epistemology and their relation to questions of scientific methodology Part II deals with case studies from the history of biology which illustrate particular philosophical points while Part III progresses to more complex ideas as on the nature and methodology of science Part IV discusses the limitations of scientific enquiry and its relations to other systems of knowledge and interpretation Laws, Men and Machines Michael Foley, 2014-02-04 First published in 1990 *Laws Men and Machines* is an original interpretation of the lasting influence that Newtonian mechanics has had on the design and operation of the American political system The author argues that it is this mechanistic tradition that now instinctively shapes the way we conceive of analyse and evaluate American politics and that the Newtonian conception of the world still finds expression in the checks and balances of the American system

Biophilosophy Rolf Sattler, 2012-12-06 This book is an introduction to biophilosophy written primarily for the student of biology the practicing biologist and the educated layperson It does not presuppose technical knowledge in biology or philosophy However it requires a willingness to examine the most basic foundations of biology which are so often taken for granted Furthermore it points to the bottomlessness of these foundations the mystery of life the Unnamable I have tried to further the awareness that biological statements are based on philosophical assumptions which are present in our minds even before we enter the laboratory These assumptions which often harbor strong commitments are exposed throughout the book I have tried to show how they influence concrete biological research as well as our personal existence and society Thus emphasis is placed on the connection between biophilosophy and biological research on the one hand and biophilosophy and the human condition on the other *Self-Determination Theory* Richard Ryan, Edward L. Deci, 2017-01-20 Self determination theory SDT provides a framework for understanding the factors that promote motivation and healthy psychological and behavioral functioning In this authoritative work the codevelopers of the theory comprehensively examine SDT's conceptual underpinnings including its six mini theories empirical evidence base and practical applications across the lifespan The volume synthesizes a vast body of research on how supporting or thwarting people's basic needs for competence relatedness and autonomy affects their development and well being Chapters cover implications for practice and policy in education health care psychotherapy sport and the workplace Persons and Minds Joseph Margolis, 2012-12-06 *Persons and Minds* is an inquiry into the possibilities of materialism Professor Margolis starts his investigation however with a critique of the range of contemporary materialist theories and does not find them viable None of them he argues can accommodate in a convincing way the most distinctive features of the mental life of men and of lower creatures and the imaginative possibilities of

discovery and technology p 8 In an extraordinarily rich analysis Margolis carefully considers and criticizes mind body identity theories physicalism eliminative materialism behaviorism as inadequate precisely in that they are reductive He argues then for ramified concepts of emergence and embodiment which will sustain a philosophically coherent account both of the distinctive non natural character of persons and of their being naturally embodied But Margolis provokes us to ask what is an embodied mind The crucial context for him is not the plain physical body as such but culture Persons he writes are in a sense not natural entities they exist only in cultural contexts and are identifiable as such only by reference to their mastery of language and of whatever further abilities presuppose such mastery p 245 The hallmark of persons in Margolis's account is their capacity for freedom as well as their physical endowment Thus he writes their characteristic powers in effect their freedom must inform the order of purely physical causes in a distinctive way p 246 **Ecological Ethics and Living**

Subjectivity in Hegel's Logic W. Kisner, 2014-06-17 By interweaving Hegelian dialectic and the middle voice this book develops a holistic account of life nature and the ethical orientation of human beings with respect to them without falling into the trap of either subjecting human rights to totality or relegating non human beings and their habitats to instrumentalism

Evolution: Genesis and Revelations C. Leon Harris, 1981-06-30 In this comprehensive history of evolutionism C Leon Harris has combined primary source readings with clear pertinent background information to provide a solid basic understanding of the ways scientists have arrived at today's views of evolution Harris describes the major contributors to the theory of evolutionism placing each in the context of the general cultural influences to which he was exposed Each chapter also contains an explanation of the philosophical basis of the scientific approach of the period in question A lengthy bibliography provides direction for further reading on this important and timely subject **Leibniz** Jürgen

Lawrenz, 2013-07-26 In this book modern scientists and philosophers of science confront the prophetic legacy of the 17th century philosopher Leibniz a metaphysical agenda full of ideas presaging today's state of the art research into relativity and quantum cosmology the physics of force mass momentum time and space complexity and chaos theories fundamental particles and multiple worlds and of the electronic cosmos of our computer era Their immense relevance to us is demonstrated by the engagement with them of over 200 present day scientific minds In essence this monograph comprises a survey and critical comparison of interlocking texts and will serve philosophers as a gateway into fundamental science from the angle of metaphysics as well as scientists as a documentation of Leibniz's profound philosophical impact on their own fields **Matter, Life, Mind, and God : Five Lectures on Contemporary Tendencies of Thought** Reinhold Friedrich

Alfred Hoernlé, 1926 **Encyclopedia of Bioethics** Warren T. Reich, 1978 315 signed articles covering ethical and legal problems basic concepts and principles ethical theories religious traditions historical perspectives and disciplines bearing on bioethics Intended primarily for teachers students journalists and other writers health professionals and those involved with public policy related to health care and the life sciences Each entry gives article signature cross references and bibliography

Appendix contains various codes or statements relevant to medical ethics Index **Handbook of Catholic Theology**
Wolfgang Beinert, Francis Schüssler Fiorenza, 1995 Everything one needs to know about Catholic theology can be found in
this essential handbook Biblically and historically based ecumenically oriented up to date and easy to use the book's eleven
major categories contain more than 300 alphabetical cross referenced entries each one to four pages in length Index
Illustrations Bioethics Doris Mueller Goldstein, 1982 Approximately 1400 references to books journal articles chapters
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were published between 1973-1981 Classified arrangement Each entry gives bibliographical information and annotation
Index **Bioethics** AnnMarie D. Mitchell, 1983 **Theoria Et Historia Scientiarum**, 1994 **The Origin of Species**
Revisited: Science Wendell R. Bird, 1991 Presents an in depth comparison of Darwin's theory of evolution versus the theory
of creation and the theory of abrupt appearance The Oxford Handbook of Philosophy of Biology Michael Ruse, 2008-07-10
This handbook covers the history of philosophy of biology then moves on to evolutionary theory It continues with discussions
of molecular biology and ecology and covers biology and ethics as well as biology and religion *Matter, Life, and*
Generation Shirley A. Roe, 2003-11-13 A case study of the interaction between philosophical context and observational data in
the practice of Science

Unveiling the Magic of Words: A Report on "**Matter Of Life Philosophical Problems Of Biology**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Matter Of Life Philosophical Problems Of Biology**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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