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John Archibald Wheeler



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RENOWNED PHYSICIST—
MEDITATIONS ON THE
UNIVERSE, THE
PHILOSOPHY OF
SCIENCE, AND THE
PURSUIT OF TRUTH

*At Home in
the Universe*

At Home In The Universe Masters Of Modern Physics

G Psacharopoulos



At Home In The Universe Masters Of Modern Physics:

Extraterrestrial Ethics Jensine Andresen, 2023-11-25 This unique book takes both inductive and deductive approaches to the topic of extraterrestrial ethics Inductively it asks what kind of ethics an advanced intelligent extraterrestrial species might display Deductively it asks how human beings should transform their own understanding of ethics to prepare for widespread contact with an advanced extraterrestrial species Using the ontological interpretation of quantum mechanics proposed by physicist and philosopher David Bohm Extraterrestrial Ethics considers how an extraterrestrial intelligence ETI may view ethical concerns relating to humankind The book examines two areas of concern nuclear technologies and the militarization and weaponization of space The text of the Fiscal Year 2022 National Defense Authorization Act FY22 NDAA in the United States clearly states that Unidentified Aerial Phenomena UAP have been reported at sites associated with nuclear weapons nuclear powered ships and submarines nuclear power generating stations etc suggesting that ETI is very concerned about the human use of nuclear technologies Furthermore the more ubiquitous level of UAP sightings by the U S military over the last few years as documented in the June 2021 report from the Office of the Director of National Intelligence ODNI in the U S suggest that ETI also is concerned about rapid acceleration relating to the militarization and weaponization of space The book concludes by advocating a normative approach to de militarize space

The Information James Gleick, 2011-03-01 From the bestselling author of the acclaimed Chaos and Genius comes a thoughtful and provocative exploration of the big ideas of the modern era Information communication and information theory Acclaimed science writer James Gleick presents an eye opening vision of how our relationship to information has transformed the very nature of human consciousness A fascinating intellectual journey through the history of communication and information from the language of Africa s talking drums to the invention of written alphabets from the electronic transmission of code to the origins of information theory into the new information age and the current deluge of news tweets images and blogs Along the way Gleick profiles key innovators including Charles Babbage Ada Lovelace Samuel Morse and Claude Shannon and reveals how our understanding of information is transforming not only how we look at the world but how we live A New York Times Notable Book A Los Angeles Times and Cleveland Plain Dealer Best Book of the Year Winner of the PEN E O Wilson Literary Science Writing Award

Arms and the Physicist Herbert F. York, 1997-05-07 From the very start at the age of twenty one Herbert York was swept into the century s most daring and dangerous technical achievement the making of the atomic bomb In Arms and the Physicist York takes us backstage to witness key events of our time to the Manhattan Project for the birth of the atomic bomb to Lawrence Livermore where the H bomb was built to Washington to eavesdrop on how post war history was being forged and to Geneva where he tried to stem the madness Readers will meet some of our greatest heroes and villains Lawrence Oppenheimer Weisskopf Teller General Groves President Eisenhower and a cast of hundreds friends colleagues enemies who for more than half a century held the fate of the world in their hands

Image Structure Luc

Florack,2013-04-17 Despite the fact that images constitute the main objects in computer vision and image analysis there is remarkably little concern about their actual definition In this book a complete account of image structure is proposed in terms of rigorously defined machine concepts using basic tools from algebra analysis and differential geometry Machine technicalities such as discretisation and quantisation details are de emphasised and robustness with respect to noise is manifest From the foreword by Jan Koenderink It is my hope that the book will find a wide audience including physicists who still are largely unaware of the general importance and power of scale space theory mathematicians who will find in it a principled and formally tight exposition of a topic awaiting further development and computer scientists who will find here a unified and conceptually well founded framework for many apparently unrelated and largely historically motivated methods they already know and love The book is suited for self study and graduate courses the carefully formulated exercises are designed to get to grips with the subject matter and prepare the reader for original research **The Astrobiological**

Landscape Cirkovic,2012-06-21 Introducing new multidisciplinary concepts this book explains how we have reached a critical threshold in the study of astrobiology **Confessions of a Technophile** Lewis M. Branscomb,1997-05-07 In this technologically adventurous book Lewis Branscomb distinguished physicist who once headed the National Bureau of Standards and later was IBM s Chief Scientist explores the wise and creative uses of our nation s science from the boundless faith in science after the Second World War into the age of technology which says Branscomb is an expression of the values of the society that creates and uses it Branscomb examines emerging information technologies computer software electronic libraries video disks and the information superhighway always exploring the way people are affected Here readers can share his vision of how we can use both science and politics to improve the prospects for humankind Of One Mind John

Ziman,1997-05-08 This superb collection by the eminent physicist and critic John Ziman opens with an album of portraits of scientists Albert Einstein Freeman Dyson Lev Landau Mark Azbel Andrei Sakharov Ziman takes readers into the world of the contemporary scientist showing how discoveries are made and how claims are tested He then travels into the minds of scientists as they are drawn into competing directions Here Ziman exposes the path of discovery which is strewn with complex human needs governmental restrictions the desire for profits and the exercise of technical virtuosity *Choice*

,1994 **Mercury**,1995 *Cosmic Enigmas* Joseph I. Silk,1997-05-08 The dominant figures of postwar astrophysical cosmology have been the late Yakov Ze ldovich of Moscow and Jim Peebles of Princeton But running a close third in influence has been Joseph Silk This collection is essential reading for the cosmological enthusiast Nature These essays represent Joseph Silk s own meandering around cosmic themes The topics span the beginning of time until its end and encompass the enigma of the evolution of large scale structure culminating in the formation of the galaxies Dr Silk has taken these writings from pieces written over the years many commissioned to highlight a new look at a new discovery in cosmology Some have been rewritten to capture a modern perspective while others remain as written to encapsulate his thoughts of a decade ago

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