

The Galileo Connection

An “intriguing and accessible” (Publishers Weekly) interpretation of the life of Galileo Galilei, one of history’s greatest and most fascinating scientists, that sheds new light on his discoveries and how he was challenged by science deniers. “We really need this story now, because we’re living through the next chapter of science denial” (Bill McKibben). Galileo’s story may be more relevant today than ever before. At present, we face enormous crises—such as minimizing the dangers of climate change—because the science behind these threats is erroneously questioned or ignored. Galileo encountered this problem 400 years ago. His discoveries, based on careful observations and ingenious experiments, contradicted conventional wisdom and the teachings of the church at the time. Consequently, in a blatant assault on freedom of thought, his books were forbidden by church authorities. Astrophysicist and bestselling author Mario Livio draws on his own scientific expertise and uses his “gifts as a great storyteller” (The Washington Post) to provide a “refreshing perspective” (Booklist) into how Galileo reached his bold new conclusions about the cosmos and the laws of nature. A freethinker who followed the evidence wherever it led him, Galileo was one of the most significant figures behind the scientific revolution. He believed that every educated person should know science as well as literature, and insisted on reaching the widest audience possible, publishing his books in Italian rather than Latin. Galileo was put on trial with his life in the balance for refusing to renounce his scientific convictions. He remains a hero and inspiration to scientists and all of those who respect science—which, as Livio reminds us in this “admirably clear and concise” (The Times, London) book, remains threatened everyday.

Now thoroughly revised and expanded, this classic booklet by Charles E. Hummel offers ideas and illustrations for effective time management.

Do you struggle to know and follow God's call for you in the world? In this twelve session LifeGuide® Bible Study on Genesis tells us that even the giants of faith—Abraham, Isaac, Jacob and Joseph—struggled to obey their Creator. But Genesis also reveals the amazing truth that the God who called a world and a nation into being also calls each of us to serve him.

Mark Noll has written a major indictment of American evangelicalism. Reading this book, one wonders if the evangelical movement has pandered so much to American culture and tried to be so popular only to lose not only it's mind but it's soul as well. For evangelical pastors and parishoners alike, this is a must read! --Robert Wuthnow.

The Intel Galileo board was designed to add the power of an Intel processor to the simplicity of the Arduino platform. Intel Galileo gives you the freedom to create a wide range of DIY projects. Intel Galileo Blueprints will be a detailed guide that

covers several projects based on the Intel Galileo board, exploiting the full potential of the board. You will first go through how to set up the development environment for the Galileo board. Next, you will connect different kinds of sensors to the Galileo board, and learn how to use the SD card reader of the board. You will then connect actuators to the Galileo board, like a relay and a servomotor, and write simple software to control these components. Later, you will access the Galileo board remotely in order to monitor the measurements done by the board and send the measured data to a Twitter feed at regular intervals. Finally, you will move on to more advanced topics, such as building a complete home automation system, building a mobile robot controlled by the Intel Galileo board and computer vision applications such as face recognition.

No other work on Galileo Galilei has brought together such a complete description of the historical context in its political, cultural, philosophical, religious, scientific, and personal aspects as this volume has done. In addition to covering the whole of Galileo's life, it focuses on those things that are most pertinent to the Galileo Affair, which culminated in his condemnation by the Inquisition in 1633. It also includes an extensive discussion of the relationship between religion and science in general, and of the relationship between Christianity and science in particular, without which a true understanding of the affair is much weakened. This discussion of the relationship of Christianity with science—a long, generally positive relationship—is most timely since the case of Galileo is, as many historians and Pope Benedict XVI have stated, the beginning of the alienation of the Church from much of the intellectual culture of our present age. The "warfare between science and religion" is an old myth that should finally be retired, but for many it is still axiomatic. This work shows the significance of astrology in the history of society and the Church (Galileo was a master astrologer), and the importance of the internal tensions and factions within the Roman Curia in the seventeenth century. It also tells of the profound battles among Church leadership over the direction of the Church in a time of uncertainty and intellectual and cultural ferment. The Galileo Affair is not just of its time and place, and it is not just about Galileo, but it touches upon that perennial issue of how the Church deals with issues of adaptation and change.

This book argues that it is possible for our study of the natural world to enhance our understanding of God and for our faith to inform and influence our study and application of science. Whether you are a student, someone employed in the sciences, or simply an interested layperson, *Not Just Science* will help you develop the crucial skills of critical thinking and reflection about key questions in Christian faith and natural science. The contributors provide a systematic approach to both raising and answering the key questions that emerge at the intersection of faith and various disciplines in the natural sciences. Among the questions addressed are the context, limits, benefits, and practice of science in light of Christian values. Questions of ethics as they relate to various applied sciences are also discussed. The end goal is an

informed biblical worldview on both nature and our role in obeying God's mandate to care for his creation. With an honest approach to critical questions, *Not Just Science* fills a gap in the discussion about the relationship between faith and reason. This is a most welcomed addition to these significant scholarly conversations. Ron Mahurin, PhD Vice President, Professional Development and Research Council for Christian Colleges & Universities

This book collects a renowned scholar's essays from the past five decades and reflects two main concerns: an approach to logic that stresses argumentation, reasoning, and critical thinking and that is informal, empirical, naturalistic, practical, applied, concrete, and historical; and an interest in Galileo's life and thought—his scientific achievements, Inquisition trial, and methodological lessons in light of his iconic status as “father of modern science.” These republished essays include many hard to find articles, out of print works, and chapters which are not available online. The collection provides an excellent resource of the author's lifelong dedication to the subject. Thus, the book contains critical analyses of some key Galilean arguments about the laws of falling bodies and the Copernican hypothesis of the earth's motion. There is also a group of chapters in which Galileo's argumentation is compared and contrasted with that of other figures such as Socrates, Karl Marx, Giordano Bruno, and his musicologist father Vincenzo Galilei. The chapters on Galileo's trial illustrate an approach to the science-vs-religion issue which Finocchiaro labels “para-clerical” and conceptualizes in terms of a judicious consideration of arguments for and against Galileo and the Church. Other essays examine argumentation about Galileo's life and thought by the major Galilean scholars of recent decades. The book will be of interest to scholars in philosophy, logic, philosophy of science, history of science, history of religion, philosophy of religion, argumentation, rhetoric, and communication studies.

This Student Edition of Brecht's classic dramatisation of the conflict between free enquiry and official ideology features an extensive introduction and commentary that includes a plot summary, discussion of the context, themes, characters, style and language as well as questions for further study and notes on words and phrases in the text. It is the perfect edition for students of theatre and literature. Along with *Mother Courage*, the character of Galileo is one of Brecht's greatest creations, immensely live, human and complex. Unable to resist his appetite for scientific investigation, Galileo's heretical discoveries about the solar system bring him to the attention of the Inquisition. He is scared into publicly abjuring his theories but, despite his self-contempt, goes on working in private, eventually helping to smuggle his writings out of the country. As an examination of the problems that face not only the scientist but also the whole spirit of free inquiry when brought into conflict with the requirements of government or official ideology, *Life of Galileo* has few equals. Written in exile in 1937-9 and first performed in Zurich in 1943, *Galileo* was first staged in English in 1947 by Joseph Losey in a version jointly prepared by Brecht and Charles Laughton, who played the title role. Printed here is the complete translation by John Willett.

Presents a biography of the scientist through the surviving letters of his illegitimate daughter Maria Celeste, who wrote him from

the Florence convent where she lived from the age of thirteen

Bored during Mass at the cathedral in Pisa, the seventeen-year-old Galileo regarded the chandelier swinging overhead--and remarked, to his great surprise, that the lamp took as many beats to complete an arc when hardly moving as when it was swinging widely. Galileo's *Pendulum* tells the story of what this observation meant, and of its profound consequences for science and technology. The principle of the pendulum's swing--a property called isochronism--marks a simple yet fundamental system in nature, one that ties the rhythm of time to the very existence of matter in the universe. Roger Newton sets the stage for Galileo's discovery with a look at biorhythms in living organisms and at early calendars and clocks--contrivances of nature and culture that, however adequate in their time, did not meet the precise requirements of seventeenth-century science and navigation. Galileo's *Pendulum* recounts the history of the newly evolving time pieces--from marine chronometers to atomic clocks--based on the pendulum as well as other mechanisms employing the same physical principles, and explains the Newtonian science underlying their function. The book ranges nimbly from the sciences of sound and light to the astonishing intersection of the pendulum's oscillations and quantum theory, resulting in new insight into the make-up of the material universe. Covering topics from the invention of time zones to Isaac Newton's equations of motion, from Pythagoras' theory of musical harmony to Michael Faraday's field theory and the development of quantum electrodynamics, Galileo's *Pendulum* is an authoritative and engaging tour through time of the most basic all-pervading system in the world. Table of Contents: Preface Introduction 1. Biological Timekeeping: The Body's Rhythms 2. The Calendar: Different Drummers 3. Early Clocks: Home-Made Beats 4. The Pendulum Clock: The Beat of Nature 5. Successors: Ubiquitous Timekeeping 6. Isaac Newton: The Physics of the Pendulum 7. Sound and Light: Oscillations Everywhere 8. The Quantum: Oscillators Make Particles Notes References Index Reviews of this book: The range of things that measure time, from living creatures to atomic clocks, brackets Newton's intriguing narrative of time's connections, in the middle of which stands Galileo's famous discovery about pendulums...Science buffs will delight in the links Newton makes in this readable tour of how humanity marks time. --Gilbert Taylor, Booklist

Mark Peterson makes an extraordinary claim in this fascinating book focused around the life and thought of Galileo: it was the mathematics of Renaissance arts, not Renaissance sciences, that became modern science. Painters, poets, musicians, and architects brought about a scientific revolution that eluded the philosopher-scientists of the day.

"Larry Hart's *Truth Aflame* brings together charismatic renewal and classic evangelical faith better than anything I have read. An important contribution to the contemporary renaissance in systematic theology!" Timothy George Dean of Beeson Divinity School of Samford University, Executive Editor of *Christianity Today* As the Pentecostal/charismatic movement continues to grow, so does the need for solid theological resources for its members. While there are many volumes of systematic theology available, very few are written from a distinctly charismatic perspective. *Truth Aflame* seeks to meet that need. While academically sound, *Truth Aflame* is written with a practical, pastoral flavor. Larry Hart defines systematic theology as the process of taking what the Bible teaches and relating it to contemporary questions and knowledge. His passion for the subject is evident: he is concerned that

the reader both grasps the magnificence of the study of God and allows these great truths to be transformative. This Truth, then—liberating, enlivening, and transforming Truth—becomes central to the ongoing renewal of the church that we are seeing in our day. Dr. Hart treats each of the traditional categories—revelation, God, creation, humanity, sin, Christ, salvation, the church, and last things—from a Pentecostal/charismatic perspective. He addresses other theological viewpoints but does not get bogged down in analysis and rebuttal. Further, he seeks to build bridges of understanding to those evangelicals outside the charismatic tradition. Clear, succinct, and readable, this revised and updated edition of *Truth Aflame* is well-suited not only for students, but for anyone desiring a greater understanding of Pentecostal/charismatic theology.

Considered the paradigm case of the troubled interaction between science and religion, the conflict between Galileo and the Church continues to generate new research and lively debate. Richard J. Blackwell offers a fresh approach to the Galileo case, using as his primary focus the biblical and ecclesiastical issues that were the battleground for the celebrated confrontation. Blackwell's research in the Vatican manuscript collection and the Jesuit archives in Rome enables him to re-create a vivid picture of the trends and counter-trends that influenced leading Catholic thinkers of the period: the conservative reaction to the Reformation, the role of authority in biblical exegesis and in guarding orthodoxy from the inroads of "unbridled spirits," and the position taken by Cardinal Bellarmine and the Jesuits in attempting to weigh the discoveries of the new science in the context of traditional philosophy and theology. A centerpiece of Blackwell's investigation is his careful reading of the brief treatise *Letter on the Motion of the Earth* by Paolo Antonio Foscarini, a Carmelite scholar, arguing for the compatibility of the Copernican system with the Bible. Blackwell appends the first modern translation into English of this important and neglected document, which was placed on the Index of Forbidden Books in 1616. Though there were differing and competing theories of biblical interpretation advocated in Galileo's time--the legacy of the Council of Trent, the views of Cardinal Bellarmine, the most influential churchman of his time, and, finally, the claims of authority and obedience that weakened the ability of Jesuit scientists to support the new science--all contributed to the eventual condemnation of Galileo in 1633. Blackwell argues convincingly that the maintenance of ecclesiastical authority, not the scientific issues themselves, led to that tragic trial.

The remarkable astronomical discoveries made by Galileo with the new telescope in 1609-10 led to his famous disputes with philosophers and religious authorities, most of whom found their doctrines threatened by his evidence for Copernicus's heliocentric universe. In this book, Eileen Reeves brings an art historical perspective to this story as she explores the impact of Galileo's heavenly observations on painters of the early seventeenth century. Many seventeenth-century painters turned to astronomical pastimes and to the depiction of new discoveries in their work, yet some of these findings imposed controversial changes in their use of religious iconography. For example, Galileo's discovery of the moon's rough topography and the reasons behind its secondary light meant rethinking the imagery surrounding the Virgin Mary's Immaculate Conception, which had long been represented in paintings by the appearance of a smooth, incandescent moon. By examining a group of paintings by early modern artists all interested in Galileo's evidence for a Copernican system, Reeves not only traces the influence of science on painting in

terms of optics and content, but also reveals the painters in a conflict between artistic depiction and dogmatic representation. Reeves offers a close analysis of seven works by Lodovico Cigoli, Peter Paul Rubens, Francisco Pacheco, and Diego Velázquez. She places these artists at the center of the astronomical debate, showing that both before and after the invention of the telescope, the proper evaluation of phenomena such as moon spots and the aurora borealis was commonly considered the province of the painter. Because these scientific hypotheses were complicated by their connection to Catholic doctrine, Reeves examines how the relationship between science and art, and their mutual production of knowledge and authority, must themselves be seen in a broader context of theological and political struggle.

Galileo's trial by the Inquisition is one of the most dramatic incidents in the history of science and religion. Today, we tend to see this event in black and white--Galileo all white, the Church all black. Galileo in Rome presents a much more nuanced account of Galileo's relationship with Rome. The book offers a fascinating account of the six trips Galileo made to Rome, from his first visit at age 23, as an unemployed mathematician, to his final fateful journey to face the Inquisition. The authors reveal why the theory that the Earth revolves around the Sun, set forth in Galileo's Dialogue, stirred a hornet's nest of theological issues, and they argue that, despite these issues, the Church might have accepted Copernicus if there had been solid proof. More interesting, they show how Galileo dug his own grave. To get the imprimatur, he brought political pressure to bear on the Roman Censor. He disobeyed a Church order not to teach the heliocentric theory. And he had a character named Simplicio (which in Italian sounds like simpleton) raise the same objections to heliocentrism that the Pope had raised with Galileo. The authors show that throughout the trial, until the final sentence and abjuration, the Church treated Galileo with great deference, and once he was declared guilty commuted his sentence to house arrest. Here then is a unique look at the life of Galileo as well as a strikingly different view of an event that has come to epitomize the Church's supposed antagonism toward science.

Over 50 recipes that will help you use the Intel Galileo board to build exciting network-connected projects About This Book Create networking applications using the Intel Galileo board Control your web-based projects in real time from anywhere in the world Connect to the Temboo web service to interact with a huge range of APIs Who This Book Is For If you have already worked on ARM boards like Arduino, but now want to learn Intel Galileo, then this book is for you. Knowledge of C programming language is required. What You Will Learn Set up your Galileo board for the Internet of Things Connect external sensors to the Intel Galileo Create and run a web server on the Galileo board Control hardware devices from the Galileo Host web-based applications on the Intel Galileo Monitor data from the cloud using the Galileo Build a complete home automation hub using the Galileo board In Detail Arduino is an electronic prototyping platform used by millions of people around the world. Intel Galileo is fully Arduino compatible; hence it combines the high performance of Intel with the simplicity of Arduino Software Development Environment. This makes it the ideal platform to build exciting projects, especially in the field of web-based connected applications and the Internet of Things. The book features several recipes all based on the Intel Galileo board, and that exploit the powerful features of the board. Each chapter explores a given field using the Galileo board. The book is mainly divided in three parts. The first part is all about learning

the basics of the Intel Galileo board, but it uses some of the powerful features of the board such as connecting external sensors and complex hardware devices, compared with more basic Arduino boards. Then, the book dives into the topics related to networking and the Internet of Things. You will learn how to run a web server on the board and log data using a cloud-based service. Finally, the book ends with a chapter that aims to build a complete home automation hub using the Galileo board. This chapter uses everything that was learned in the book to make a home automation system using the Galileo board and Arduino. Style and approach This book contains exciting recipes that will help you create projects using the Intel Galileo platform to build systems in various domains like local networking applications, the Internet of Things, and home automation. Each recipe is explained in a step-by-step fashion, always starting with the assembly of the hardware, followed by basic tests of all hardware components. At the end, an exciting project is built using the knowledge acquired in the rest of the book.

Winner of the 2004 ECPA Platinum Book Award! Is the clock a slavemaster or a tool that serves you? Does the quantity of your responsibilities squeeze out the quality of your life? Are urgent things so pressing that you don't have "inner time" to sort out what's really important? How can you discern what God wants you to do? Charles Hummel's classic booklet *Tyranny of the Urgent* has sold over one million copies. Now for the first time he expands on the life-changing perspective that has transformed the lives of thousands struggling to keep from being swept away by the rush of life. Gathered in this book are proven principles taken straight from biblical teaching, from today's time-management experts and from Hummel's own life experience. You'll discover how to make the calendar your friend manage your life instead of your time get motivated stay open to God's guidance in small choices avoid being dragged down by past choices develop "inner time" for reflection and planning and much more! If you have too much to do and not enough time to do it, this book is for you.

Leadership guru Anthony Silard shows how to bring greater purpose to life by transforming dreams into concrete, deadline-driven goals and aligning values with everyday actions. In this landmark book, leadership guru Anthony Silard takes a holistic view of success that makes sense in a modern world. With the proliferation of texting, emails, smart phones, and more, our home lives have begun to look a lot like work and now, more than ever, people crave deep connections and fulfillment in both their personal and professional lives. *The Connection* provides ways to handle the unprecedented information flow, increased loneliness, and lack of purpose that so often characterizes modern culture. *The Connection* is a valuable resource for people who wish to live with value and purpose and develop a more centered, directed, and resilient approach to life. With a simple set of exercises, Silard shows you how to bring worth and drive to every aspect of your life by transforming your lofty dreams into concrete, deadline-driven goals that align your deepest values with your everyday existence. Silard will help you understand the true source of your passion and motivation to build a foundation for change, and, ultimately, the skills to cultivate a truly authentic life. *The Connection* includes dozens of specific tools and strategies, all enhanced with personal examples, inspiring quotes, and insightful anecdotes to offer an entertaining and life-changing read.

In the court of the Medicis and the Vatican, Galileo fashioned both his career and his science to the demands of patronage and to

its complex systems of wealth, power, and prestige. Now, Mario Biagioli shows how Galileo's courtly role was integral to his science--the questions he examined, his methods, and even his conclusions.

If we want nonscientists and opinion-makers in the press, the lab, and the pulpit to take a fresh look at the relationship between science and religion, Ronald L. Numbers suggests that we must first dispense with the hoary myths that have masqueraded too long as historical truths. Until about the 1970s, the dominant narrative in the history of science had long been that of science triumphant, and science at war with religion. But a new generation of historians both of science and of the church began to examine episodes in the history of science and religion through the values and knowledge of the actors themselves. Now Ronald Numbers has recruited the leading scholars in this new history of science to puncture the myths, from Galileo's incarceration to Darwin's deathbed conversion to Einstein's belief in a personal God who "didn't play dice with the universe." The picture of science and religion at each other's throats persists in mainstream media and scholarly journals, but each chapter in *Galileo Goes to Jail* shows how much we have to gain by seeing beyond the myths.

This book is for anyone who has ever been curious about using the Intel Galileo to create electronics projects. Some programming background is useful, but if you know how to use a personal computer, with the aid of the step-by-step instructions in this book, you can construct complex electronics projects that use the Intel Galileo.

This is the 1998 Aquinas Lecture, delivered in the Todd Wehr Chemistry Building on Sunday, February 22, 1998, by Richard J. Blackwell, Professor of Philosophy at Saint Louis University in the US.

Do you struggle to know and follow God's call for you in the world? In this fourteen session LifeGuide® Bible Study on Genesis, tells us that even the giants of faith—Abraham, Isaac, Jacob and Joseph—struggled to obey their Creator. But Genesis also reveals the amazing truth that the God who called a world and a nation into being also calls each of us to serve him.

Do you struggle to know and follow God's call for you in the world? In this twenty-six session LifeGuide® Bible Study on Genesis, tells us that even the giants of faith—Abraham, Isaac, Jacob and Joseph—struggled to obey their Creator. But Genesis also reveals the amazing truth that the God who called a world and a nation into being also calls each of us to serve him.

This book is a distinctively original biography of Galileo Galilei, probably the last eclectic genius of the Italian Renaissance, who was not only one of the greatest scientists ever, but also a philosopher, a theologian, and a man of great literary, musical, and artistic talent – “The Tuscan Artist”, as the poet John Milton referred to him. Galileo was exceptional in simultaneously excelling in the Arts, Science, Philosophy, and Theology. These diverse aspects of his life were closely intertwined; indeed, it may be said that he personally demonstrated that human culture is not divisible, but rather one, with a thousand shades. Galileo also represented the bridge between two historical epochs. As the philosopher Tommaso Campanella, a contemporary of Galileo, recognized at the time, Galileo was responsible for

ushering in a new age, the Modern Age. This book, which is exceptional in the completeness of its coverage, explores all aspects of the life of Galileo, as a Tuscan artist and giant of the Renaissance, in a stimulating and reader-friendly way.

An introduction to the study of theology and an overview of the systems, terms, and people of the discipline.

Six studies drawn from Charles Hummel's *Tyranny of the Urgent* will help you put your life back in order by focusing on God's "to do" list instead of your own.

"A devastating attack upon the dominance of atheism in science today." Giovanni Fazio, Senior Physicist, Harvard-Smithsonian Center for Astrophysics
The debate over the ultimate source of truth in our world often pits science against faith. In fact, some high-profile scientists today would have us abandon God entirely as a source of truth about the universe. In this book, two professional astronomers push back against this notion, arguing that the science of today is not in a position to pronounce on the existence of God—rather, our notion of truth must include both the physical and spiritual domains. Incorporating excerpts from a letter written in 1615 by famed astronomer Galileo Galilei, the authors explore the relationship between science and faith, critiquing atheistic and secular understandings of science while reminding believers that science is an important source of truth about the physical world that God created.

Discusses controversies between science and Christianity in their historical contexts.

The Description for this book, *Galileo: Heretic*, will be forthcoming.

A translation of Thomas Campanella's *Apologia pro Galileo*. Blackwell's introduction provides background information relating Campanella and his *apologia* to the Galileo affair. Extensive notes identifying Campanella's use of sources and the persons he mentions in the *Apologia* are included.

Getting Started with the Intel Galileo gets you up and running with this new, x86-powered board that was developed in collaboration between Arduino and Intel. You'll learn how to set it up, connect it to your computer, and begin programming. You'll learn how to build electronics projects around the Galileo, and you'll explore the features and power that make it different from all the boards that came before. Developed in collaboration with the Intel Galileo team, and in consultation with members of the Arduino team, this is the definitive introduction to Intel's new board for makers.

In this exciting story of the Galileo mission to investigate Jupiter, noted astronomer Daniel Fischer weaves together the many disparate facts learned about this most fascinating planet and its satellites. Fischer tells the entire story of Galileo: a behind-the-scenes look at its difficult course from idea to reality; its launch; the problems it encountered early on and how these were resolved; and finally, what will become of the probe. Along the way, the author describes what we have learned about Jupiter, including what the Jovian atmosphere is really like, and the peculiar reality of the planet's magnetic field. The story of the journey to Jupiter is combined with interesting details about Galileo's capacities and a graphic

description of the solar system, with an episode on how Galileo would judge the chances of finding life on Earth. The book concludes with a look at the future, closing on the Cassini probe to Saturn. Beautifully illustrated and well written, Mission Jupiter shows us space exploration at its best and clearly and vividly conveys the essential science. This new scientific biography explores the influences on, and of, Galileo's exceptional work, thereby revealing novel connections with the worldviews of his age and beyond. Galileo Galilei's contribution to science is unquestionable. And his conflict with the church establishment of his time is no less famous. In this book, authored by a physicist and history scholar, Galileo's life and work are described against a backdrop of the prior scientific state of the art in his various fields of achievement. Particular emphasis is placed on Galileo's vision of the world in relation to historic and also future cosmological models. The impact of his discoveries and theories for the later development of physics and astronomy is a further focus of the narrative.

Galileo's Dialogue Concerning the Two Chief World Systems, published in Florence in 1632, was the most proximate cause of his being brought to trial before the Inquisition. Using the dialogue form, a genre common in classical philosophical works, Galileo masterfully demonstrates the truth of the Copernican system over the Ptolemaic one, proving, for the first time, that the earth revolves around the sun. Its influence is incalculable. The Dialogue is not only one of the most important scientific treatises ever written, but a work of supreme clarity and accessibility, remaining as readable now as when it was first published. This edition uses the definitive text established by the University of California Press, in Stillman Drake's translation, and includes a Foreword by Albert Einstein and a new Introduction by J. L. Heilbron.

What did Galileo actually do, and what are the sources of the popular image we have of him? In this collection, contributors' essays offer coverage of all facets of Galileo's work.

Blackwell's research in the Vatican manuscript collection and the Jesuit archives in Rome enables him to re-create a vivid picture of the trends and counter-trends that influenced leading Catholic thinkers of the period: the conservative reaction to the Reformation, the role of authority in biblical exegesis and in guarding orthodoxy from the inroads of "unbridled spirits," and the position taken by Cardinal Bellarmine and the Jesuits in attempting to weigh the discoveries of the new science in the context of traditional philosophy and theology.

This book is for anyone who wants to learn Intel Galileo for home automation and cross-platform software development. No knowledge of programming with Intel Galileo is assumed, but knowledge of the C programming language is essential.

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