

Prologue Lab P 2 Sunspot Analysis Answers Mybeerore

On the occasion of the International Conference on Cosmic Rays held in Kyoto in August 1979 five aged members of the cosmic ray fraternity, H. Elliot, V. L. Ginzburg, B. Peters, Y. Sekido, and J. A. Simpson met together as a dinner party devoted to the enjoyment of Japanese cuisine and reminiscences of our younger days. This pleasant occasion called to of our own age as well as some eminent seniors not present at the mind the many friends conference whose recollections would have further enriched and enlivened our evening. By the time the dinner came to an end we had agreed that the compilation of a more extensive collection of personal reminiscences would be an interesting and worthwhile undertaking. Accordingly, the next day we held an editorial meeting to draw up a list of potential authors and two of us, the present editors, started work on the project. In putting the book together our intention has been to try to capture and record through these personal accounts something of the atmosphere, the excitement and the frustrations of research in cosmic rays as experienced at first hand by some of the practi tioners in the field. It has never been our intention that it should comprise a systematic history of the subject. Neither, unfortunately, can it be a fully

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representative collection since practical limits to the size of the volume alone would preclude that.

Homeschooled by Renaissance Fair enthusiasts, eleven-year-old Imogene has a hard time fitting in when her wish to enroll in public school is granted.

Covers in a comprehensive fashion all aspects of cosmic hazards and possible strategies for contending with these threats through a comprehensive planetary defense strategy. This handbook brings together in a single reference work a rich blend of information about the various types of cosmic threats that are posed to human civilization by asteroids, comets, bolides, meteors, solar flares and coronal mass ejections, cosmic radiation and other types of threats that are only recently beginning to be understood and studied, such as investigation of the “cracks” in the protective shield provided by the Van Allen belts and the geomagnetosphere, of matter-antimatter collisions, orbital debris and radiological or biological contamination. Some areas that are addressed involve areas about which there is a good deal of information that has been collected for many decades by multiple space missions run by many different space agencies, observatories and scientific researchers. Other areas involving research and studies that have only recently gotten underway are discussed by some of the world’s foremost experts in each of these areas, who provide up-to-date and

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scientifically verifiable information. Although much of the work in these various areas have been conducted by space agencies, an expanding range of work is also being carried out by observatories, by universities and other research centers, and even by private foundations and professional organizations.

The purpose of this work is thus several-fold: to include the latest information and most systematic research from around the world in a single reference work; to note where there are significant gaps in knowledge where new research, spacecraft, observatories, or other initiatives are needed to fill in critical missing information; and to give the best possible information about preventative actions that might be taken against cosmic threats and identify various alternative strategies that are now under way or planned to cope with these various threats.

This latest addition to the Studies in Geophysics series explores in scientific detail the phenomenon of lightning, cloud, and thunderstorm electricity, and global and regional electrical processes. Consisting of 16 papers by outstanding experts in a number of fields, this volume compiles and reviews many recent advances in such research areas as meteorology, chemistry, electrical engineering, and physics and projects how new knowledge could be applied to benefit mankind.

This work has been selected by scholars as being culturally important and is part of the knowledge

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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. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Handbook of Visual Optics offers an authoritative overview of encyclopedic knowledge in the field of physiological optics. It builds from fundamental concepts to the science and technology of instruments and practical procedures of vision correction, integrating expert knowledge from physics, medicine, biology, psychology, and engineering. The chapters comprehensively cover all aspects of modern study and practice, from optical principles and optics of the eye and retina to novel ophthalmic tools for imaging and visual testing, devices and techniques for visual correction, and the relationship between ocular optics and visual perception.

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Important new insights into how various components and systems evolved. Premised on the idea that one cannot know a science without knowing its history, *History of Wireless* offers a lively new treatment that introduces previously unacknowledged pioneers and developments, setting a new standard for understanding the evolution of this important technology. Starting with the background—magnetism, electricity, light, and Maxwell's Electromagnetic Theory—this book offers new insights into the initial theory and experimental exploration of wireless. In addition to the well-known contributions of Maxwell, Hertz, and Marconi, it examines work done by Heaviside, Tesla, and passionate amateurs such as the Kentucky melon farmer Nathan Stubblefield and the unsung hero Antonio Meucci. Looking at the story from mathematical, physics, technical, and other perspectives, the clearly written text describes the development of wireless within a vivid scientific milieu. *History of Wireless* also goes into other key areas, including: The work of J. C. Bose and J. A. Fleming; German, Japanese, and Soviet contributions to physics and applications of electromagnetic oscillations and waves; Wireless telegraphic and telephonic development and attempts to achieve transatlantic wireless communications; Wireless telegraphy in South Africa in the early twentieth century; Antenna development in Japan; past and present Soviet quasi-optics at

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near-mm and sub-mm wavelengths The evolution of electromagnetic waveguides The history of phased array antennas Augmenting the typical, Marconi-centered approach, History of Wireless fills in the conventionally accepted story with attention to more specific, less-known discoveries and individuals, and challenges traditional assumptions about the origins and growth of wireless. This allows for a more comprehensive understanding of how various components and systems evolved. Written in a clear tone with a broad scientific audience in mind, this exciting and thorough treatment is sure to become a classic in the field.

"Scarlet has been keeping to herself. But she is convinced that her removal from the Star Darlings was a terrible mistake. With Vega's help she starts an investigation. Meanwhile, Ophelia is chosen to go on a Wishworld mission, for which she is hopelessly unprepared. Will Scarlet be the one to rescue Ophelia and the mission?"--Page [4] of cover.

"In science fiction there is only a handful of books that stretch the mind—and this is one of them."—Arthur C. Clarke In a moving story of sacrifice and triumph, human scientists establish a relationship with intelligent lifeforms—the cheela—living on Dragon's Egg, a neutron star where one Earth hour is equivalent to hundreds of their years. The cheela culturally evolve from savagery to the discovery of science, and for a brief time, men

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are their diligent teachers. Praise for Dragon's Egg
"Bob Forward writes in the tradition of Hal
Clement's Mission of Gravity and carries it a giant
step (how else?) forward."—Isaac Asimov "Dragon's
Egg is superb. I couldn't have written it; it required
too much real physics."—Larry Niven "This is one for
the real science-fiction fan."—Frank Herbert "Robert
L. Forward tells a good story and asks a profound
question. If we run into a race of creatures who live a
hundred years while we live an hour, what can they
say to us or we to them?"—Freeman J. Dyson
"Forward has impeccable scientific credentials, and .
. . . big, original, speculative ideas."—The Washington
Post

Trouet delights us with her dedication to the tangible
appeal of studying trees, a discipline that has taken
her to austere and beautiful landscapes around the
globe and has enabled scientists to solve long-
pondered mysteries of Earth and its human
inhabitants.

This book explores in detail the role of laboratory
work in physics teaching and learning. Compelling
recent research work is presented on the value of
experimentation in the learning process, with
description of important research-based proposals
on how to achieve improvements in both teaching
and learning. The book comprises a rigorously
chosen selection of papers from a conference
organized by the International Research Group on

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Physics Teaching (GIREP), an organization that promotes enhancement of the quality of physics teaching and learning at all educational levels and in all contexts. The topics covered are wide ranging. Examples include the roles of open inquiry experiments and advanced lab experiments, the value of computer modeling in physics teaching, the use of web-based interactive video activities and smartphones in the lab, the effectiveness of low-cost experiments, and assessment for learning through experimentation. The presented research-based proposals will be of interest to all who seek to improve physics teaching and learning.

Despite the thousands of articles and the millions of times that the word 'bubble' has been used in the business press, there still does not appear to be a cohesive theory or persuasive empirical approach with which to study 'bubble' and 'crash' conditions. This book presents a plausible and accessible descriptive theory and empirical approach to the analysis of such financial market conditions. It advances such a framework through application of standard econometric methods to its central idea, which is that financial bubbles reflect urgent short side rationed demand. From this basic idea, an elasticity of variance concept is developed. It is further shown that a behavioral risk premium can probably be measured and related to the standard equity risk premium models in a way that is

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consistent with conventional theory.

Blindsight is the Hugo Award–nominated novel by Peter Watts, "a hard science fiction writer through and through and one of the very best alive" (The Globe and Mail). Two months have past since a myriad of alien objects clenched about the Earth, screaming as they burned. The heavens have been silent since—until a derelict space probe hears whispers from a distant comet. Something talks out there: but not to us. Who should we send to meet the alien, when the alien doesn't want to meet? Send a linguist with multiple-personality disorder and a biologist so spliced with machinery that he can't feel his own flesh. Send a pacifist warrior and a vampire recalled from the grave by the voodoo of paleogenetics. Send a man with half his mind gone since childhood. Send them to the edge of the solar system, praying you can trust such freaks and monsters with the fate of a world. You fear they may be more alien than the thing they've been sent to find—but you'd give anything for that to be true, if you knew what was waiting for them. . . . At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied. 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

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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

NATIONAL BESTSELLER • From the author of the New York Times bestseller *Choke* and the cult classic *Fight Club*, a cunningly plotted novel about the ultimate verbal weapon, one that reinvents the apocalyptic thriller for our times. "A harrowing and hilarious glimpse into the future of civilization." —*Minneapolis Star-Tribune* Ever heard of a culling song? It's a lullaby sung in Africa to give a painless death to the old or infirm. The lyrics of a culling song kill, whether spoken or even just thought. You can find one on page 27 of *Poems and Rhymes from Around the World*, an anthology that is sitting on the shelves of libraries across the country, waiting to be picked up by

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unsuspecting readers. Reporter Carl Streater discovers the song's lethal nature while researching Sudden Infant Death Syndrome, and before he knows it, he's reciting the poem to anyone who bothers him. As the body count rises, Streater glimpses the potential catastrophe if someone truly malicious finds out about the song. The only answer is to find and destroy every copy of the book in the country. Accompanied by a shady real-estate agent, her Wiccan assistant, and the assistant's truly annoying ecoterrorist boyfriend, Streater begins a desperate cross-country quest to put the culling song to rest.

A riveting family saga, *The Story of Edgar Sawtelle* explores the deep and ancient alliance between humans and dogs, and the power of fate through one boy's epic journey into the wild. Born mute, speaking only in sign, Edgar Sawtelle leads an idyllic life with his parents on their farm in remote northern Wisconsin. For generations, the Sawtelles have raised and trained a fictional breed of dog whose thoughtful companionship is epitomized by Almondine, Edgar's lifelong companion. But with the unexpected return of Claude, Edgar's uncle, turmoil consumes the Sawtelle's once-peaceful home. When Edgar's father dies suddenly, Claude insinuates himself into the life of the farm – and into Edgar's mother's affections. Grief-stricken and bewildered, Edgar tries to prove Claude played a role in his father's death, but his plan backfires, spectacularly. Edgar flees into the vast wilderness lying beyond the farm. He comes of age in the wild, fighting for his survival and that of the three yearling dogs who follow him. But his need to face

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his father's murderer, and his devotion to the Sawtelle dogs, turn Edgar ever homeward. Wroblewski is a master storyteller, and his breathtaking scenes – the elemental north woods, the sweep of seasons, an iconic American barn, a ghost made of falling rain – create a family saga that is at once a brilliantly inventive retelling of Hamlet, an exploration of the limits of language, and a compulsively readable modern classic.

Since the dawn of medical science, people have recognized connections between a change in the weather and the appearance of epidemic disease. With today's technology, some hope that it will be possible to build models for predicting the emergence and spread of many infectious diseases based on climate and weather forecasts. However, separating the effects of climate from other effects presents a tremendous scientific challenge. Can we use climate and weather forecasts to predict infectious disease outbreaks? Can the field of public health advance from "surveillance and response" to "prediction and prevention?" And perhaps the most important question of all: Can we predict how global warming will affect the emergence and transmission of infectious disease agents around the world? Under the Weather evaluates our current understanding of the linkages among climate, ecosystems, and infectious disease; it then goes a step further and outlines the research needed to improve our understanding of these linkages. The book also examines the potential for using climate forecasts and ecological observations to help predict infectious disease outbreaks, identifies the necessary components for an epidemic early warning

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system, and reviews lessons learned from the use of climate forecasts in other realms of human activity.

#1 NEW YORK TIMES BESTSELLING PHENOMENON

More than 6 million copies sold A Reese Witherspoon x Hello Sunshine Book Club Pick A Business Insider

Defining Book of the Decade "I can't even express how much I love this book! I didn't want this story to

end!"--Reese Witherspoon "Painfully beautiful."--The

New York Times Book Review For years, rumors of the

"Marsh Girl" have haunted Barkley Cove, a quiet town on the North Carolina coast. So in late 1969, when

handsome Chase Andrews is found dead, the locals

immediately suspect Kya Clark, the so-called Marsh Girl.

But Kya is not what they say. Sensitive and intelligent,

she has survived for years alone in the marsh that she

calls home, finding friends in the gulls and lessons in the

sand. Then the time comes when she yearns to be

touched and loved. When two young men from town

become intrigued by her wild beauty, Kya opens herself

to a new life--until the unthinkable happens. Where the

Crawdads Sing is at once an exquisite ode to the natural

world, a heartbreaking coming-of-age story, and a

surprising tale of possible murder. Owens reminds us

that we are forever shaped by the children we once

were, and that we are all subject to the beautiful and

violent secrets that nature keeps.

From a breathtaking new voice, a novel about a

splintered family in Kenya—a story of power and deceit,

unrequited love, survival and sacrifice. Odidi Oganda,

running for his life, is gunned down in the streets of

Nairobi. His grief-stricken sister, Ajany, just returned from

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Brazil, and their father bring his body back to their crumbling home in the Kenyan drylands, seeking some comfort and peace. But the murder has stirred memories long left untouched and unleashed a series of unexpected events: Odidi and Ajany's mercurial mother flees in a fit of rage; a young Englishman arrives at the Ogandas' house, seeking his missing father; a hardened policeman who has borne witness to unspeakable acts reopens a cold case; and an all-seeing Trader with a murky identity plots an overdue revenge. In scenes stretching from the violent upheaval of contemporary Kenya back through a shocking political assassination in 1969 and the Mau Mau uprisings against British colonial rule in the 1950s, we come to learn the secrets held by this parched landscape, buried deep within the shared past of the family and of a conflicted nation. Here is a spellbinding novel about a brother and sister who have lost their way; about how myths come to pass, history is written, and war stains us forever.

This lab manual provides Skill Sheets and includes traditional lab exercises as well as inquiry-based lab activities.

The Sun is nowadays observed using different techniques that provide an almost instantaneous 3-D map of its structure. Of particular interest is the study of the variability in the solar output produced by the dissipation of magnetic energy on different spatial and temporal scales – the so-called magnetic activity. The 11-year cycle is the main feature describing this phenomenon. Apart from its intrinsic scientific interest, this topic is worth studying because of the interaction of such processes with the

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terrestrial environment. A fleet of space and ground-based observatories are currently monitoring the behaviour of our star on a daily basis. However, solar activity varies not only on this decadal time-scale, as has been attested mainly through two methods: (a) records of the number of sunspots observed on the solar surface from 1610, and (b) the records of ^{14}C and ^{10}Be cosmogenic isotopes, such as ^{14}C and ^{10}Be , measured in tree-rings and ice-cores, respectively. The study of the long-term behaviour of solar activity may be complemented by the study of historical accounts describing phenomena directly or indirectly related to solar activity. Numerous scientific and non-scientific documents have reported these events and we can make use of them as a proxy of solar activity in past times.

Challenges the dominant big bang theory of the origins of the universe, arguing that the universe has neither a beginning nor an end and that it has endured and evolved through an infinite period of time

The Biographical Encyclopedia of Astronomers is a unique and valuable resource for historians and astronomers alike. The two volumes include approximately 1550 biographical sketches on astronomers from antiquity to modern times. It is the collective work of about 400 authors edited by an editorial board of 9 historians and astronomers, and provides additional details on the nature of an entry and some summary statistics on the content of entries. This new reference provides biographical information on astronomers and cosmologists by utilizing contemporary historical scholarship. Individual entries vary from 100 to

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1500 words, including the likes of the superluminaries such as Newton and Einstein, as well as lesser-known astronomers like Galileo's acolyte, Mario Guiducci. A comprehensive contributor index helps researchers to identify the authors of important scientific topics and treatises.

The subject of the book is helium, the element, and its use in myriad applications including MRI machines, particle accelerators, space telescopes, and of course balloons and blimps. It was at the birth of our Universe, or the Big Bang, where the majority of cosmic helium was created; and stellar helium production continues. Although helium is the second most abundant element in the Universe, it is actually quite rare here on Earth and only exists because of radioactive elements deep within the Earth. This book includes a detailed history of the discovery of helium, of the commercial industry built around it, how the helium we actually encounter is produced within the Earth, and the state of the helium industry today. The gas that most people associate with birthday party balloons is running out. "Who cares?" you might ask. Well, without helium, MRI machines could not function, rockets could not go into space, particle accelerators such as those used by CERN could not operate, fiber optic cables would not exist, and semiconductor chips could not be made...the list goes on and on.

Documents the troubling influence of a small group of scientists who the author contends misrepresent scientific facts to advance key political and economic agendas, revealing the interests behind their detractions

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on findings about acid rain, DDT, and other hazards. Summary Gnuplot in Action, Second Edition is a major revision of this popular and authoritative guide for developers, engineers, and scientists who want to learn and use gnuplot effectively. Fully updated for gnuplot version 5, the book includes four pages of color illustrations and four bonus appendixes available in the eBook. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Gnuplot is an open-source graphics program that helps you analyze, interpret, and present numerical data. Available for Unix, Mac, and Windows, it is well-maintained, mature, and totally free. About the Book Gnuplot in Action, Second Edition is a major revision of this authoritative guide for developers, engineers, and scientists. The book starts with a tutorial introduction, followed by a systematic overview of gnuplot's core features and full coverage of gnuplot's advanced capabilities. Experienced readers will appreciate the discussion of gnuplot 5's features, including new plot types, improved text and color handling, and support for interactive, web-based display formats. The book concludes with chapters on graphical effects and general techniques for understanding data with graphs. It includes four pages of color illustrations. 3D graphics, false-color plots, heatmaps, and multivariate visualizations are covered in chapter-length appendixes available in the eBook. What's Inside Creating different types of graphs in detail Animations, scripting, batch operations Extensive discussion of terminals Updated to cover gnuplot version 5 About the

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Reader No prior experience with gnuplot is required. This book concentrates on practical applications of gnuplot relevant to users of all levels. About the Author Philipp K. Janert, PhD, is a programmer and scientist. He is the author of several books on data analysis and applied math and has been a gnuplot power user and developer for over 20 years. Table of Contents PART 1 GETTING STARTED Prelude: understanding data with gnuplot Tutorial: essential gnuplot The heart of the matter: the plot command PART 2 CREATING GRAPHS Managing data sets and files Practical matters: strings, loops, and history A catalog of styles Decorations: labels, arrows, and explanations All about axes PART 3 MASTERING TECHNICALITIES Color, style, and appearance Terminals and output formats Automation, scripting, and animation Beyond the defaults: workflow and styles PART 4 UNDERSTANDING DATA Basic techniques of graphical analysis Topics in graphical analysis Coda: understanding data with graphs

For undergraduate or graduate courses that include planning, conducting, and evaluating research. A do-it-yourself, understand-it-yourself manual designed to help students understand the fundamental structure of research and the methodical process that leads to valid, reliable results. Written in uncommonly engaging and elegant prose, this text guides the reader, step-by-step, from the selection of a problem, through the process of conducting authentic research, to the preparation of a completed report, with practical suggestions based on a solid theoretical framework and sound pedagogy.

Suitable as the core text in any introductory research

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course or even for self-instruction, this text will show students two things: 1) that quality research demands planning and design; and, 2) how their own research projects can be executed effectively and professionally. An extraordinary personal journey through cancer and treatment. "...Extraordinary...Its bravery, irony, humour and intelligence - everything shines through the transparent prose...a remarkable literary voice, or melding of three voices--the autobiographical, the poetic, and the allegorical." - Dr. Oliver Sacks "The life of an individual is as complex as a maze of reflecting mirrors. The life of a family is even more so." Doris Brett is an award-winning writer and poet. 'I forget who said that the prospect of impending death concentrates the mind wonderfully . . . clarifying is the word I keep thinking of. But this is not the clarifying of a mist gently evaporating to reveal answers. This is the clarifying of paint-stripper; a solvent that stings and burns with its harshness, but reveals what was truly there all the time.' When Doris Brett was diagnosed with cancer several years ago, she began writing a private journal - a traveller's diary through a life-threatening illness. The journal, however, rapidly grew into something much more than that. Cancer became the catalyst for an inner journey - a journey through self. Evocatively told via three voices - the diarist, the poet, and the voice of fairytale and myth - this memoir explores the intricate dynamics of family, truth and memory. Poignant and compelling, *Eating the Underworld* is a sharply observed, often unexpectedly funny book about change, transformation and the constant renewal of self throughout our lives. 'As with

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any descent into a feared and terrifying country - whether it is the country of illness or the country of a grieving heart - we have entered the underworld. And we have eaten of its fruit . . . the knowledge of ourselves, the knowledge of others. We cannot remain unchanged. The accidental killing of a group of emissaries to Earth threatens man's survival

Astrophysics: Decoding the Cosmos is an accessible introduction to the key principles and theories underlying astrophysics. This text takes a close look at the radiation and particles that we receive from astronomical objects, providing a thorough understanding of what this tells us, drawing the information together using examples to illustrate the process of astrophysics. Chapters dedicated to objects showing complex processes are written in an accessible manner and pull relevant background information together to put the subject firmly into context. The intention of the author is that the book will be a 'tool chest' for undergraduate astronomers wanting to know the how of astrophysics. Students will gain a thorough grasp of the key principles, ensuring that this often-difficult subject becomes more accessible.

Then, Now, and Beyond is a book of essays by members of the MIT Class of 1964 written on the occasion of their 55th reunion. It is about how the world has changed since they entered MIT in 1960. The essays are a blend of history and biography written by those who led, participated, or observed the unfolding events in many disciplines, not just science and engineering. The essays cover 1960 through 2019, and for some a view of what the future might hold. The late fifties and sixties were

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times of significant change - social, cultural, and technological. We had the good fortune of being drawn together from many places, spending time together, and then being blasted out into the real world - to amass experiences and to evolve beliefs and views of what the world (big and small) might be like for our grandchildren. That's what this book is about. Lots of people before us have written about: the way things were, or the history of "X," of the future of "Y." What we capture in these essays is a sense of the people of our times, change as we saw it unfold and our belief as to its future impact. The essays are about hobbies, politics, culture, business, science and technology. "Then" is the late 50's early 60's. We took exams with your "slip stick" (slide rule) and often you could bring anything into an exam except another person. Telecommunications was often teletype and computer input was punched cards and paper tape. Computers were big and not very powerful - such as the IBM 709, 7090, 7094, TX-0, or PDP-1. You waited your turn for the main frame much as a supplicant to the gods. Then there was MIT Project MAC (Mathematics and Computation) which introduced timesharing. "Now" is well NOW. Computers abound - they wait on our wanting to use them and applications get written with stuff you don't need to prove you need an update and a faster machine. More power in a tiny device than existed in a room full in 1964. Wi-Fi antennas abound. The Internet has a lot of information including, old stuff about our undergraduate days, where we now live, what we do, meetings we go to, etc. etc. Would George Orwell, author of "1984," have recognized the "New

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privacy?"And "Beyond" is in the offing - much like what a landlubber sees when she stares toward the horizon and sees the ships going to far off places. It's where predictions of the future don't necessarily come true, but that is hardly a reason not to predict.

Authors: Jim Allen, Bob Blumberg, Robert Colvin, Ron Gilman, Bob Gray, Conrad Grundlehner, Leon Kaatz, Jim Lerner, Paul Lubin, John Meriwether, Jim Monk, Lita Nelsen, Bob Popadic, David Saul, Tom Seay, David Sheena, Don Stewart, Bob Weggel, and Warren Wiscombe.

Essay Topics

Arts and Culture

Then and Now - Did our world get better? Maybe yes. - David Sheena

It Was Different Then - Especially for Women - Lita Nelsen

Coeducation at MIT - Bob Gray

Business

How Technology Has Changed the Law - Ron Gilman

Technology Comes to Shopping - Conrad Grundlehner

Checks are Going Away and Have Been for a Long Time - Bob Popadic

Science and Technology

Moonshot - David Saul

The Journey of an Aeronomer - John Meriwether

Half a Century of Medicine - Robert Colvin

Analog to Digital - Close Up View - Don Stewart

From Pong to PCs - Jim Allen

How Electronics Changed since Graduation - A Compression of Space and Time - Bob Blumberg

From Aeronautics Student to Citizen Lobbyist - Jim Lerner

Reflections on Energy - Jim Monk

My Personal Odyssey in Climate Science - Warren Wiscombe

Nuclear Deterrence and Satellite Communications - Thomas Seay

My Many Years With Magnets - Bob Weggel

The Evolution of Instant Photography - Paul Lubin

Recreation

Amateur Photography and Cinematography - Bob Popadic

How Small Boat Costal Navigation Has Changed - Bob

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Popadic Ice Climbing and Technology- Leon Kaatz

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