

## **An Micore Reader Ic Family Directly Matched Antenna Design**

Second edition of a text for students of horticulture, first published in 1985. Provides information about the methods used to control weeds and common pests, and the diseases that affect horticultural crops. Discusses topics such as the use of resistant varieties, integrated pest management, relevant legislation and the role of plant quarantine. Includes suggestions for further reading and index.

Biofuels are considered to be the main potential replacement for fossil fuels in the near future. In this book international experts present recent advances in biofuel research and related technologies. Topics include biomethane and biobutanol production, microbial fuel cells, feedstock production, biomass pre-treatment, enzyme hydrolysis, genetic manipulation of microbial cells and their application in the biofuels industry, bioreactor systems, and economical processing technologies for biofuel residues. The chapters provide concise information to help understand the technology-related implications of biofuels development. Moreover, recent updates on biofuel feedstocks, biofuel types, associated co- and byproducts and their applications are highlighted. The book addresses the needs of postgraduate researchers and scientists across

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diverse disciplines and industrial sectors in which biofuel technologies and related research and experimentation are pursued.

This volume in the series deals with the major Medicinal and Aromatic Plants MAPs of South America, providing information on major aspects of this specific group of plants on that continent (botany, traditional usage, chemistry, production/collection practices, trade and utilization). Brazil, in particular, offers an immense amount of biodiversity, including plants with great pharmacological interest and medicinal importance. The Amazon Basin, in northern Brazil has a highly diverse biota and still harbours a variety of unknown and unstudied plant species for medicinal values. Contributions are from internationally recognized professionals, specialists of the Medicinal and Aromatic Plant domain and have been invited mostly from the members of the International Society for Horticultural Science and International Council for Medicinal and Aromatic Plants.

This comparison of the political and social systems of Europe and black Africa from antiquity to the formation of modern states demonstrates the black contribution to the development of Western civilization.

The chickpea is an ancient crop that is still important in both developed and developing nations. This authoritative account by international experts covers

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all aspects of chickpea breeding and management, and the integrated pest management and biotechnology applications that are important to its improvement. With topics covered including origin and taxonomy, ecology, distribution and genetics, this book combines the many and varied research issues impacting on production and utilization of the chickpea crop on its journey from paddock to plate. Technological advancements in recent years have enabled the development of tiny, cheap disposable and self contained battery powered computers, known as sensor nodes or “motes”, which can accept input from an attached sensor, process this input and transmit the results wirelessly to some interested device(s). When a number of these nodes work together, conceivably up to hundreds of thousands, a Wireless Sensor Network (WSN) is formed. Research in the area of wireless sensor networks has become increasingly widespread in recent years, partly due to their wide range of potential uses and also partly due to the fact that the technology enabling such networks is now widely available from many different suppliers, such as: Crossbow, MoteIV, Intel and SUN (java based motes). These wireless sensor networks have the potential to allow a level of integration between computers and the physical world that, to date, has been virtually impossible. The uses for such networks is almost limitless and include such diverse

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applications as a counter sniper system for urban warfare [1] tracking the path of a forest fire [2], determining the structural stability of a building after an earthquake [3], or tracking people or objects inside a building [4], etc.

Carbon nanotubes are rolled up graphene sheets with a quasi-one-dimensional structure of nanometer-scale diameter. In these last twenty years, carbon nanotubes have attracted much attention from physicists, chemists, material scientists, and electronic device engineers because of their excellent structural, electronic, optical, chemical and mechanical properties. Carbon nanotube research, especially that aiming at industrial applications, is becoming more important. This book covers recent research topics regarding the physical, structural, chemical and electric properties on carbon nanotubes. All chapters were written by researchers who are active on the front lines. The chapters in this book will be helpful to many students, engineers and researchers working in the field of carbon nanotubes.

The term “minimally invasive spinal surgery” was coined in early 1990 following publication of the first edition of this text entitled *Arthroscopic Microdiscectomy: Minimal Intervention in Spinal Surgery*, and subsequent establishment of the International Society for Minimal Intervention in Spinal Surgery (ISMIS) under the auspices of the

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International Society of Orthopaedic Surgery and Traumatology (SICOT) in April 1990. The orthopedic and neurological surgeons who participated in lectures and hands-on workshops both in Philadelphia and abroad have witnessed the evolution of minimally invasive spinal surgery from blind nucleotomy to endoscopic fragmentectomy, decompression of lateral recess stenosis, foraminoplasty, and spinal stabilization. In *Arthroscopic and Endoscopic Spinal Surgery: Text and Atlas, Second Edition*, experts describe and illustrate various techniques and approaches that are currently used in this field. In addition, the ongoing research for the betterment of spine care via minimally invasive approaches is briefly reviewed. I would like to express my sincere appreciation to so many of my colleagues who supported my efforts in the field of minimally invasive spinal surgery throughout the years. Many of them participated in our teaching symposiums and have provided valuable contributions to this text.

This is the first book describing in vitro cultivation of root organs. The text describes various biological aspects such as the physiology, biochemistry, biodiversity, and life cycles of fungi, as well as the effects of symbiosis on plant growth and development, including large-scale fungus production for biotechnological use. Detailed protocols allow the immediate application of the

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method to culture mycorrhizal fungi in vitro.

Learning a complex new language is no easy task especially when it s an object-oriented computer programming language like Java. You might think the problem is your brain. It seems to have a mind of its own, a mind that doesn't always want to take in the dry, technical stuff you're forced to study. The fact is your brain craves novelty. It's constantly searching, scanning, waiting for something unusual to happen. After all, that's the way it was built to help you stay alive. It takes all the routine, ordinary, dull stuff and filters it to the background so it won't interfere with your brain's real work--recording things that matter. How does your brain know what matters? It's like the creators of the Head First approach say, suppose you're out for a hike and a tiger jumps in front of you, what happens in your brain? Neurons fire. Emotions crank up. Chemicals surge. That's how your brain knows. And that's how your brain will learn Java. Head First Java combines puzzles, strong visuals, mysteries, and soul-searching interviews with famous Java objects to engage you in many different ways. It's fast, it's fun, and it's effective. And, despite its playful appearance, Head First Java is serious stuff: a complete introduction to object-oriented programming and Java. You'll learn everything from the fundamentals to advanced topics, including threads, network sockets, and distributed

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programming with RMI. And the new, second edition focuses on Java 5.0, the latest version of the Java language and development platform. Because Java 5.0 is a major update to the platform, with deep, code-level changes, even more careful study and implementation is required. So learning the Head First way is more important than ever. If you've read a Head First book, you know what to expect--a visually rich format designed for the way your brain works. If you haven't, you're in for a treat. You'll see why people say it's unlike any other Java book you've ever read. By exploiting how your brain works, Head First Java compresses the time it takes to learn and retain--complex information. Its unique approach not only shows you what you need to know about Java syntax, it teaches you to think like a Java programmer. If you want to be bored, buy some other book. But if you want to understand Java, this book's for you.

The idea that small loans can help poor families build businesses and exit poverty has blossomed into a global movement. The concept has captured the public imagination, drawn in billions of dollars, reached millions of customers, and garnered a Nobel Prize. Radical in its suggestion that the poor are creditworthy and conservative in its insistence on individual accountability, the idea has expanded beyond credit into savings, insurance, and money transfers, earning the name microfinance. But is it

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the boon so many think it is? Readers of David Roodman's openbook blog will immediately recognize his thorough, straightforward, and trenchant analysis. *Due Diligence*, written entirely in public with input from readers, probes the truth about microfinance to guide governments, foundations, investors, and private citizens who support financial services for poor people. In particular, it explains the need to deemphasize microcredit in favor of other financial services for the poor.

'Antibacterial Surfaces' covers the advances being made in the design of antibacterial surfaces, which have the ability to either prevent the initial attachment of bacterial cells, or kill any cells that come into contact with these surfaces. This book discusses the mechanisms associated with the attachment of bacteria to surfaces and the main strategies currently being employed to control the initial attachment processes. These strategies are expanded upon in the subsequent chapters, where the definition and description of antibacterial surfaces are clarified, as are the mechanisms that come into play when determining the effectiveness of an antibacterial surface. Subsequent chapters discuss a number of naturally occurring antibacterial surfaces, the methods currently being used for producing synthetic antibacterial surfaces, and the current and potential applications of such materials. This book will be of great interest to people who

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work with materials that need to remain free of bacterial films, from designing safer biomedical implants to the production of self-cleaning materials where the prevention of biofilm formation has significant economic advantages.

Biofeedback training is a research methodology and training procedure through which people can learn voluntary control over their internal physiological systems. It is a merger of multiple disciplines with interest deriving from many sources—from basic understanding of psychophysiology to a desire for enhanced self-awareness. The goals of biofeedback are to develop an increased awareness of relevant internal physiological functions, to establish control over these functions, to generalize control from an experimental or clinical setting to everyday life, and to focus attention on mind/body integration. Biofeedback is explored in many different settings. In the university, biofeedback equipment and applications can be found in the departments of experimental and clinical psychology, counseling, physiology, biology, education, and the theater arts, as well as in the health service (student infirmary). Outside the university, biofeedback may be found in different departments of hospitals (such as physical medicine), private clinics, education and self-awareness groups, psychotherapy practices, and elsewhere. Its growth is still expanding, and excitement is still rising as a result of biofeedback's demonstration that autonomic functions can be brought under voluntary control and that the long-standing artificial separation between mind, body, and consciousness can be disproven.

The Definitive Guide to the ARM Cortex-M0 is a guide for users of ARM Cortex-M0 microcontrollers. It presents many examples to make it easy for novice embedded-software

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developers to use the full 32-bit ARM Cortex-M0 processor. It provides an overview of ARM and ARM processors and discusses the benefits of ARM Cortex-M0 over 8-bit or 16-bit devices in terms of energy efficiency, code density, and ease of use, as well as their features and applications. The book describes the architecture of the Cortex-M0 processor and the programmers model, as well as Cortex-M0 programming and instruction set and how these instructions are used to carry out various operations. Furthermore, it considers how the memory architecture of the Cortex-M0 processor affects software development; Nested Vectored Interrupt Controller (NVIC) and the features it supports, including flexible interrupt management, nested interrupt support, vectored exception entry, and interrupt masking; and Cortex-M0 features that target the embedded operating system. It also explains how to develop simple applications on the Cortex-M0, how to program the Cortex-M0 microcontrollers in assembly and mixed-assembly languages, and how the low-power features of the Cortex-M0 processor are used in programming. Finally, it describes a number of ARM Cortex-M0 products, such as microcontrollers, development boards, starter kits, and development suites. This book will be useful to both new and advanced users of ARM Cortex devices, from students and hobbyists to researchers, professional embedded- software developers, electronic enthusiasts, and even semiconductor product designers. The first and definitive book on the new ARM Cortex-M0 architecture targeting the large 8-bit and 16-bit microcontroller market Explains the Cortex-M0 architecture and how to program it using practical examples Written by an engineer at ARM who was heavily involved in its development

Religion as Poetry continues in the grand tradition of the sociology of religion pioneered by Emile Durkheim, Max Weber, and Talcott Parsons, among other giants in

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intellectual history. Too many present-day sociologists either ignore or disparage religious currents. In this provocative book, Andrew M. Greeley argues that various religions have endured for thousands of years as poetic rituals and stories. Religion as Poetry proposes a theoretical framework for understanding religion that emphasizes insights derived from religious stories. By virtue of his own rare abilities as a novelist as well as sociologist, Greeley is uniquely qualified for this task. Greeley first considers classical theories of the sociology of religion, and then, drawing upon them, he explicates his own interpretation. He critically examines the viewpoint that society is becoming more secular, and that religion is declining. He observes that this theory stands in the way of persuading sociologists that religion is still worth studying. In contrast, Greeley is interested in why religions persist despite secular trends and alongside them. He argues that it is poetic elements that touch the human soul. Greeley then sets out to test this viewpoint. Greeley maintains that his theory is not the only, or necessarily even the best approach to study religion. Rather, it is his contention that it uniquely provides sociologists with perspectives on religion that other theories too often overlook or disregard. Religion as Poetry, an original and intriguing study by a distinguished social scientist and major novelist, will be enjoyed and evaluated by sociologists, theologians, and philosophers alike.

Most microcontroller-based applications nowadays are large, complex, and may require several tasks to share the MCU in multitasking applications. Most modern high-speed microcontrollers support multitasking kernels with sophisticated scheduling algorithms so that many complex tasks can be executed on a priority basis. ARM-based Microcontroller Multitasking Projects: Using the FreeRTOS Multitasking Kernel explains how to multitask ARM Cortex microcontrollers using the FreeRTOS multitasking kernel. The

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book describes in detail the features of multitasking operating systems such as scheduling, priorities, mailboxes, event flags, semaphores etc. before going onto present the highly popular FreeRTOS multitasking kernel. Practical working real-time projects using the highly popular Clicker 2 for STM32 development board (which can easily be transferred to other boards) together with FreeRTOS are an essential feature of this book. Projects include: LEDs flashing at different rates; Refreshing of 7-segment LEDs; Mobile robot where different sensors are controlled by different tasks; Multiple servo motors being controlled independently; Multitasking IoT project; Temperature controller with independent keyboard entry; Random number generator with 3 tasks: live, generator, display; home alarm system; car park management system, and many more. Explains the basic concepts of multitasking Demonstrates how to create small multitasking programs Explains how to install and use the FreeRTOS on an ARM Cortex processor Presents structured real-world projects that enables the reader to create their own Semiconductor Gas Sensors, Second Edition, summarizes recent research on basic principles, new materials and emerging technologies in this essential field. Chapters cover the foundation of the underlying principles and sensing mechanisms of gas sensors, include expanded content on gas sensing characteristics, such as response, sensitivity and cross-sensitivity, present an overview of the nanomaterials utilized for gas sensing, and review the latest applications for semiconductor gas sensors, including environmental monitoring, indoor monitoring, medical applications, CMOS integration and chemical warfare agents. This second edition has been completely updated, thus ensuring it reflects current literature and the latest materials systems and applications. Includes an overview of key applications, with new chapters on indoor monitoring and medical applications Reviews

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developments in gas sensors and sensing methods, including an expanded section on gas sensor theory Discusses the use of nanomaterials in gas sensing, with new chapters on single-layer graphene sensors, graphene oxide sensors, printed sensors, and much more

"Global Journalism Education in the 21st Century: Challenges and Innovations" sheds light on the present and future of journalism education worldwide and how to best prepare future journalists (and citizens) to cover the news. This one-stop text, reference book is a must-read for everyone interested in quality journalism education and practice.

Fast and Effective Embedded Systems Design is a fast-moving introduction to embedded system design, applying the innovative ARM mbed and its web-based development environment. Each chapter introduces a major topic in embedded systems, and proceeds as a series of practical experiments, adopting a "learning through doing" strategy. Minimal background knowledge is needed. C/C++

programming is applied, with a step-by-step approach which allows the novice to get coding quickly. Once the basics are covered, the book progresses to some "hot" embedded issues - intelligent instrumentation, networked systems, closed loop control, and digital signal processing. Written by two experts in the field, this book reflects on the experimental results, develops and matches theory to practice, evaluates the strengths and weaknesses of the technology or technique introduced, and considers applications and the wider context. Numerous exercises and end of chapter questions are included. A hands-on introduction to the field of embedded systems, with a focus on fast prototyping Key embedded system concepts covered through simple and effective experimentation Amazing breadth of coverage, from simple digital i/o, to advanced networking and control Applies the most accessible tools available in the embedded world

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Supported by mbed and book web sites, containing FAQs and all code examples Deep insights into ARM technology, and aspects of microcontroller architecture Instructor support available, including power point slides, and solutions to questions and exercises

The Definitive Guide to Arm® Cortex®-M23 and Cortex-M33 Processors focuses on the Armv8-M architecture and the features that are available in the Cortex-M23 and Cortex-M33 processors. This book covers a range of topics, including the instruction set, the programmer's model, interrupt handling, OS support, and debug features. It demonstrates how to create software for the Cortex-M23 and Cortex-M33 processors by way of a range of examples, which will enable embedded software developers to understand the Armv8-M architecture. This book also covers the TrustZone® technology in detail, including how it benefits security in IoT applications, its operations, how the technology affects the processor's hardware (e.g., memory architecture, interrupt handling, etc.), and various other considerations in creating secure software. Presents the first book on Armv8-M Architecture and its features as implemented in the Cortex-M23 and Cortex-M33 processors Covers TrustZone technology in detail Includes examples showing how to create software for Cortex-M23/M33 processors

The authors report on the yearlong "financial diaries" of villagers and slum dwellers in Bangladesh, India, and South Africa--records that track penny by penny how specific households manage their money. --from publisher description.

This volume explores microRNA pathophysiology, focusing on basic concepts in molecular and cellular biology. Chapters contributed by leading scientists examine recently discovered pathways in several processes, including aging, diabetes, cardiovascular disease, hematopoiesis, and mitochondrial

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fitness. The authors contextualize microRNAs within epigenetics and micropeptidomics, angiogenesis and atherosclerosis, endometrial pathophysiology, and more. Throughout, numerous color photographs, diagrams of molecular pathways, and tables enhance the text. *microRNA: Basic Science* is an ideal companion to both *microRNA: Medical Evidence* and *microRNA: Cancer*. Taken together, these three books provide a state-of-the-art overview of this rapidly-expanding and fascinating field, from the molecular level to clinical practice. It will be invaluable to medical students, physicians, and researchers, as a complete and unique guide in the exploration of microRNA in basic science, cancer and clinical practice.

Designed to give a concise but complete overview of the field, this book features contributions written by leading experts in the various areas. Topics include design, materials, film growth, deposition including large area, characterization and monitoring, and mechanical stress.

"After traveling through the cities of Hangzhou, China, Boston, U.S.A., Bangalore, India, and Lyon, France; after 107 conversations within these cities, and after studying the thoughts of Gilles Deleuze, Rick Dolphijn explores the realms of food. Traveling throughout the world AND the world of philosophy, he opens up four different spaces (the four different parts of this book) in which various experiments take place in thinking how we relate to the edible; connecting the edible to such concepts as the self, the event, the State, health, dietetics, territoriality, capitalism, and nomadology, to name just a few. He shows us how the micropolitics of food is capable of showing us everything. Thus, it performs an ethics of life"--P. [4] of cover.

This is an introductory textbook for graduate students and researchers from various fields of

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science who wish to learn about carbon nanotubes. The field is still at an early stage, and progress continues at a rapid rate. This book focuses on the basic principles behind the physical properties and gives the background necessary to understand the recent developments. Some useful computational source codes which generate coordinates for carbon nanotubes are also included in the appendix. Ambient intelligence is the vision of a technology that will become invisibly embedded in our natural surroundings, present whenever we need it, enabled by simple and effortless interactions, attuned to all our senses, adaptive to users and context-sensitive, and autonomous. High-quality information access and personalized content must be available to everybody, anywhere, and at any time. This book addresses ambient intelligence used to support human contacts and accompany an individual's path through the complicated modern world. From the technical standpoint, distributed electronic intelligence is addressed as hardware vanishing into the background. Devices used for ambient intelligence are small, low-power, low weight, and (very importantly) low-cost; they collaborate or interact with each other; and they are redundant and error-tolerant. This means that the failure of one device will not cause failure of the whole system. Since wired connections often do not exist, radio methods will play an important role for data transfer.

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This book addresses various aspects of ambient intelligence, from applications that are imminent since they use essentially existing technologies, to ambitious ideas whose realization is still far away, due to major unsolved technical challenges.

How a team of musicians, engineers, computer scientists, and psychologists developed computer music as an academic field and ushered in the era of digital music. In the 1960s, a team of Stanford musicians, engineers, computer scientists, and psychologists used computing in an entirely novel way: to produce and manipulate sound and create the sonic basis of new musical compositions. This group of interdisciplinary researchers at the nascent Center for Computer Research in Music and Acoustics (CCRMA, pronounced “karma”) helped to develop computer music as an academic field, invent the technologies that underlie it, and usher in the age of digital music. In *The Sound of Innovation*, Andrew Nelson chronicles the history of CCRMA, tracing its origins in Stanford's Artificial Intelligence Laboratory through its present-day influence on Silicon Valley and digital music groups worldwide. Nelson emphasizes CCRMA's interdisciplinarity, which stimulates creativity at the intersections of fields; its commitment to open sharing and users; and its pioneering commercial engagement. He shows that Stanford's outsized influence on the emergence of digital music came from the

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intertwining of these three modes, which brought together diverse supporters with different aims around a field of shared interest. Nelson thus challenges long-standing assumptions about the divisions between art and science, between the humanities and technology, and between academic research and commercial applications, showing how the story of a small group of musicians reveals substantial insights about innovation. Nelson draws on extensive archival research and dozens of interviews with digital music pioneers; the book's website provides access to original historic documents and other material.

Microbes are ubiquitous in nature, and plant-microbe interactions are a key strategy for colonizing diverse habitats. The plant microbiome (epiphytic, endophytic and rhizospheric) plays an important role in plant growth and development and soil health. Further, rhizospheric soil is a valuable natural resource, hosting hotspots of microbes, and is vital in the maintenance of global nutrient balance and ecosystem function. The term endophytic microbes refers to those microorganisms that colonize the interior the plants. The phyllosphere is a common niche for synergism between microbes and plants and includes the leaf surface. The diverse group of microbes are key components of soil-plant systems, and where they are engaged in an extensive network of interactions in the

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rhizosphere/endophytic/phyllospheric they have emerged as an important and promising tool for sustainable agriculture. Plant microbiomes help to directly or indirectly promote plant growth using plant growth promoting attributes, and could potentially be used as biofertilizers/bioinoculants in place of chemical fertilizers. This book allows readers to gain an understanding of microbial diversity associated with plant systems and their role in plant growth, and soil health. Offering an overview of the state of the art in plant microbiomes and their potential biotechnological applications in agriculture and allied sectors, it is a valuable resource for scientists, researchers and students in the field of microbiology, biotechnology, agriculture, molecular biology, environmental biology and related subjects.

Electromagnetic Compatibility of Integrated Circuits: Techniques for Low Emission and Susceptibility focuses on the electromagnetic compatibility of integrated circuits. The basic concepts, theory, and an extensive historical review of integrated circuit emission and susceptibility are provided.

Standardized measurement methods are detailed through various case studies. EMC models for the core, I/Os, supply network, and packaging are described with applications to conducted switching noise, signal integrity, near-field and radiated noise. Case studies from different companies and research laboratories are presented with in-depth descriptions

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of the ICs, test set-ups, and comparisons between measurements and simulations. Specific guidelines for achieving low emission and susceptibility derived from the experience of EMC experts are presented. In this urgent, authoritative book, Bill Gates sets out a wide-ranging, practical - and accessible - plan for how the world can get to zero greenhouse gas emissions in time to avoid a climate catastrophe. Bill Gates has spent a decade investigating the causes and effects of climate change. With the help of experts in the fields of physics, chemistry, biology, engineering, political science, and finance, he has focused on what must be done in order to stop the planet's slide toward certain environmental disaster. In this book, he not only explains why we need to work toward net-zero emissions of greenhouse gases, but also details what we need to do to achieve this profoundly important goal. He gives us a clear-eyed description of the challenges we face. Drawing on his understanding of innovation and what it takes to get new ideas into the market, he describes the areas in which technology is already helping to reduce emissions, where and how the current technology can be made to function more effectively, where breakthrough technologies are needed, and who is working on these essential innovations. Finally, he lays out a concrete, practical plan for achieving the goal of zero emissions- suggesting not only policies that governments should

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adopt, but what we as individuals can do to keep our government, our employers, and ourselves accountable in this crucial enterprise. As Bill Gates makes clear, achieving zero emissions will not be simple or easy to do, but if we follow the plan he sets out here, it is a goal firmly within our reach.

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