

## Diploma First Semester Mechanical Engineering Physics Notes

Written by former NASA engineer Dr David Baker, A Degree in a Book: Electrical and Mechanical Engineering is presented in an attractive landscape format in full-color. With timelines, feature spreads and information boxes, readers will quickly get to grips with the fundamentals of electrical and mechanical engineering and their practical applications. The separate ages of engineering are divided into empirical and scientific periods, then the range of possibilities provided by discovery, analysis, invention and application are covered. A final section relates the mechanical and electrical fields of applied engineering to the challenges of the future. This includes environmental responsibility and the value of an engineer in a holistic sense rather than as an isolated individual or as a team member.

**ABOUT THE SERIES:** Get the knowledge of a degree for the price of a book in Arcturus Publishing's A Degree in a Book series. Featuring handy timelines, information boxes, feature spreads and margin annotations, these illustrated full-color books are perfect for anyone wishing to master seemingly complex subject with ease and enjoyment.

Mathematics for Mechanical Engineers gives mechanical engineers convenient access to the essential problem solving tools that they use each day. It covers applications employed in many different facets of mechanical engineering, from basic through advanced, to ensure that you will easily find answers you need in

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this handy guide. For the engineer venturing out of familiar territory, the chapters cover fundamentals like physical constants, derivatives, integrals, Fourier transforms, Bessel functions, and Legendre functions. For the experts, it includes thorough sections on the more advanced topics of partial differential equations, approximation methods, and numerical methods, often used in applications. The guide reviews statistics for analyzing engineering data and making inferences, so professionals can extract useful information even with the presence of randomness and uncertainty. The convenient Mathematics for Mechanical Engineers is an indispensable summary of mathematics processes needed by engineers.

The world manufacturing companies operate in is changing. In the past, these companies relied on the design and sale of products. Today, this linear model of business is becoming increasingly insufficient. As customers are more and more focused on their core business, buying and operating machinery and other goods becomes unattractive to them. In response to this, manufacturing companies are expanding their value capture into additional stages of the product lifecycle by providing integrated offerings of products and services — Product-Service Systems (PSSs). Designing and providing PSSs is fundamentally different from traditional product sales. Expanding to become a PSS provider is, therefore, challenging for companies with a history of designing and selling products. Departing from this, it is the aim of this thesis to support manufacturing companies in their expansion to effective and efficient

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design and provision of PSSs. The research reported has both descriptive and prescriptive properties, reflecting the goals of understanding the status quo in manufacturing companies' practice and providing support based on this. To establish a point of departure, the current design and provision of two manufacturing companies expanding their business towards PSSs was investigated. From this, an in-depth understanding of the status quo and a number of challenges emerged. Based on this, the research had the goal to contribute to identifying and developing solutions to these challenges, with an initial focus on methods supporting PSS design and provision. However, although methods fitting to the challenges identified exist, they appear to receive limited uptake in manufacturing companies' practice. In order to improve their practical utility, a structured method is proposed to assist users in both academia and practice in developing methods in a requirements-oriented fashion. The utility of methods in improving the efficiency and effectiveness of PSS design and provision is thereby to be enhanced. A particular challenge for manufacturing companies expanding to become PSS providers is the change in how value is captured: Resulting from the extensive involvement throughout the lifecycle, a need for a broader, multidimensional understanding of value capture was identified. However, the manufacturing companies investigated have been found to experience challenges in grasping this change, with a focus on a product sales-centric understanding of value capture remaining prevalent. To support companies towards reaping the benefits of the expansion to PSS design and

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provision, methods to explore how value is currently created and captured in the use phase and how to enhance the future value capture based on that information in the design phase have been developed and applied. As a result, broadly relevant value dimensions were attained, aiming to facilitate a lifecycle-focused, effective, and efficient design and provision of PSSs. Eventually, to broaden the understanding of effective and efficient design and provision of PSSs in practice today, the potential contributions of real-world PSSs to a circular economy were investigated based on an existing framework. The result was ambiguous, indicating both advancements compared to traditional sales and substantial room for improvement, particularly with a focus on the absolute decoupling of economic activity and resource use. Based on the synthesis of the research results, manufacturing companies are supported in their expansion to effective and efficient design and provision of PSSs — and towards a promising future.

For over 15 years "Principles of Electrical Machines" is an ideal text for students who look to gain a current and clear understanding of the subject as all theories and concepts are explained with lucidity and clarity.

Succinctly divided in 14 chapters, the book delves into important concepts of the subject which include Armature Reaction and Commutation, Single-phase Motors, Three-phase Induction motors, Synchronous Motors, Transformers and Alternators with the help of numerous figures and supporting chapter-end questions for retention.

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Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

Post-secondary education is one of the fastest growing segments of the educational system. In this volume the development and activities of universities, colleges of applied arts and technology, and other institutions of post-secondary education are described in detail. The public and private training activities of business and industry are outlined, and government programs for adult retraining described. Dr Fleming traces the origins of the institutes of technology and the college of applied art and technology, and he provides capsule histories of every university in Ontario.

Engineering Education has emerged as a fast developing 'discipline' in itself with universities across the world opening up exclusive 'Departments of Engineering Education' which is also impacting the socio-economic system in India. Most of the engineering institutions in India are part of the 'hub-and-spoke' university education system unique to India. Scientifically developing the 'Outcome-based Curriculum' (OBC) uniformly across India has been a daunting task, due to the dearth of an authentic book

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on OBC addressing the need of the Indian Engineering Education System. This being the first book of its kind in India and with OBC serving as the 'Constitution' of 'Outcome-based Education' (OBE), it will go a long way to address this need. The unique feature of this book is that it is replete with examples to explain the various concepts of planning, designing and implementing the OBC in engineering institutions. Different aspects of Outcome-based Teaching Learning (OBTL) and Outcome-based Assessment (OBA) are also discussed vividly. Apart from the examples weaved into the lucidly written seven chapters, additional examples and important formats are provided in the 'Annexures'; another unique feature of this book. Every engineering UG, PG, or Diploma teacher would be happy to possess a personal copy of this book for 24x7 access which will help to clear their doubts as it arises then and there. **TARGET AUDIENCE** • Technical Instruction • Technical Teacher Trainers • Curriculum Specialists/Instructional Designers • Education Policy Makers What the reviewers' say "The technical education has to adopt Outcome-Based Curriculum and there was a dire need of authentic literature which would serve as a base document for scientifically developing OBC. The book reflects the expertise of both the authors who have more than 30 years of experience in industry and academics in designing and implementing different variants of

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OBC for various technical education programmes. Such a book will serve as a reference for future generations to avoid 're-inventing the wheel again and again.' —Dr. M.P. Poonia, Vice-Chairman, AICTE "National Institute of Technical Teacher Training and Research (NITTTR) Bhopal has been spearheading different forms of OBC for the last five decades in which the authors have contributed substantially. Care has been taken such that this book will not only benefit the Indian engineering education system, but also the engineering teaching fraternity at the international context."—Dr. C. Thangaraj, Director, NITTTR Bhopal

The Current state of expectations is that Computer Integrated Manufacturing (CIM) will ultimately determine the industrial growth of world nations within the next few decades. Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), Flexible Manufacturing Systems (FMS), Robotics together with Knowledge and Information Based Systems (KIBS) and Communication Networks are expected to develop to a mature state to respond effectively to the managerial requirements of the factories of the future that are becoming highly integrated and complex. CIM represents a new production approach which will allow the factories to deliver a high variety of products at a low cost and with short production cycles. The new technologies for CIM are needed to develop manufacturing

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environments that are smarter, faster, close-coupled, integrated, optimized, and flexible.

Sophistication and a high degree of specialization in materials science, artificial intelligence, communications technology and knowledge-information science techniques are needed among others for the development of realizable and workable CIM systems that are capable of adjusting to volatile markets. CIM factories are to allow the production of a wide variety of similar products in small batches through standard but multi mission oriented designs that accommodate flexibility with specialized software.

Reasoning is equally weighed section in any competitive examination. Reasoning tests the thinking power and mind applicability skills of the candidates. The questions on reasoning asked in various competitive examinations are not easy to solve without having enough practice. The revised edition of A New Approach to Reasoning will help candidates master the 'Tricks of the Trade' as it covers all the three types of reasoning very much comprehensively. This book has been divided into 3 Sections – Verbal Reasoning, Analytical Reasoning and Non-Verbal Reasoning each sub-divided into number of chapters with different types of questions of multiple patterns asked in various exams. The Verbal Reasoning section covers Analogy, Clocks, Calendar, Puzzles, Coding-Decoding, Classification,

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Number Series, Letter Series, Blood Relations, Clerical Aptitude, etc. whereas, the Analytical Reasoning section covers Statement & Arguments, Statement & Assumptions, Course of Action, Cause & Effects, Syllogism, etc. The Non-Verbal Reasoning section covers Analogy, Classification, Completion of Figures, Cubes, Paper Folding, Mirror Image, Water Image, Figure Matrix, etc. Two Leveled Exercises have been given for practice. More than 2000 Previous Years' Questions of different competitive examinations including MAT and other MBA entrances, Bank PO, Clerk, SSC, LIC, RBI, RRB, B.Ed. etc along with their authentic and detailed solutions have been covered in the exercises. The ample number of previous years' questions will help the candidates get an insight into the trends and types of questions asked in the test of reasoning in various competitive and recruitment examinations. This book aims at providing a complete coverage of the needs of First Year students as per S.B.T.E's. revised syllabus. The entire revised syllabus has been covered keeping in view the non-availability of the complete subject matter through a single source. The difficult articles have been explained in a simple language providing, wherever necessary, neat and well explained diagrams so that even an average student may be able to follow it independently. A sufficient number of solved examples and problems with answers and SBTE questions are given at the

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end of each topic. Formulae specifying symbol meaning are enlisted before solving the examples. Includes various departmental reports and reports of commissions. Cf. Gregory. Serial publications of foreign governments, 1815-1931.

This e-book is a compilation of papers presented at the Mechanical Engineering Research Day 2017 (MERD'17) - Melaka, Malaysia on 30 March 2017. Engineering Mathematics-I

"Groom To The Next Version Of You V.0 to V.1" is all about your holistic grooming, not only externally but internally as well. Filled with high quotient of passion and confidence. In this book, author Vishal Manocha presents an all-encompassing, integrated self-belief approach for building unshakeable confidence while grooming your overall personality in a unique way. With penetrating insights and and pointing anecdotes, Manocha reveals his grooming journey from a small-town boy to becoming a grooming mentor and expert. This book refers to all 3 facets of Grooming - mind, body and soul inspiring every reader to take definite steps towards becoming a well-groomed personality. Everyone wants to become the next version of themselves, but the one who has a grit to take a life-changing decision, comes out as the winner. Do buy this book, but most importantly implement the ingenious ideas that are sure to lead you to unprecedented success!

The text begins by reviewing, in a simple and precise

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manner, the physical principles of three pillars of Refrigeration and Air Conditioning, namely thermodynamics, heat transfer, and fluid mechanics. Following an overview of the history of refrigeration, subsequent chapters provide exhaustive coverage of the principles, applications and design of several types of refrigeration systems and their associated components such as compressors, condensers, evaporators, and expansion devices. Refrigerants too, are studied elaboratively in an exclusive chapter. The second part of the book, beginning with the historical background of air conditioning in Chapter 15, discusses the subject of psychrometrics being at the heart of understanding the design and implementation of air conditioning processes and systems, which are subsequently dealt with in Chapters 16 to 23. It also explains the design practices followed for cooling and heating load calculations. Each chapter contains several worked-out examples that clarify the material discussed and illustrate the use of basic principles in engineering applications. Each chapter also ends with a set of few review questions to serve as revision of the material learned.

Reasoning is equally weighed section in any competitive examination. Reasoning tests the thinking power and mind applicability skills of the candidates. The questions on reasoning asked in various competitive examinations are not easy to

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solve without having enough practice. Verbal & Analytical Reasoning will help candidates master the 'Tricks of the Trade' as it covers verbal and analytical reasoning very much comprehensively. This book has been divided into two Sections – Verbal Reasoning and Analytical Reasoning each sub-divided into number of chapters with different types of questions of multiple patterns asked in various exams. The Verbal Reasoning section has been divided into 21 chapters covering Analogy, Classification, Series, Coding-Decoding, Logical Arrangement of Words, Mathematical Operation, Venn Diagram, Clocks, Calendar, Decision Making, Input-Output, Puzzles, Data Sufficiency, etc whereas the Analytical Reasoning section has been divided into eight chapters covering Statement & Arguments, Statement & Assumptions, Course of Action, Passage & Conclusions, Cause & Effects, Syllogism, etc. Ample number of solved problems have been covered in each chapter followed by practice exercises at the end to help aspirants practice the concepts discussed in each chapter. Also the book contains previous years' solved questions of different competitive examinations like CAT, XAT, UPSC, SSC, etc to help aspirants get an insight into the types of reasoning questions asked. The book will be highly useful for aspirants preparing for Management (CAT, XAT, CMAT, IIFT, SNAP & other), Bank (PO & Clerk), SSC (CGL, 10+2, Steno,

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FCI, CPO & Multitasking), LIC (AAO & ADO), CLAT, RRB, UPSC and other state PSC Exams. As the book covers Verbal and Analytical Reasoning both in detail with ample number of solved problems, it for sure will help aspirants prepare both the types in a thorough manner and score high in the upcoming competitive & recruitment exams.

This book provides a detailed study of geometrical drawing through simple and well-explained worked-out examples and exercises. This book is designed for students of first year Engineering Diploma course, irrespective of their branches of study. The book is divided into seven modules. Module A covers the fundamentals of manual drafting, lettering, freehand sketching and dimensioning of views. Module B describes two-dimensional drawings like geometrical constructions, conics, miscellaneous curves and scales. Three-dimensional drawings, such as projections of points, lines, plane lamina, geometrical solids and their different sections are well-explained in Module C. Module D deals with intersection of surfaces and their developments. Drawing of pictorial views is illustrated in Module E, which includes isometric projection, oblique projection and perspective projections. The fundamentals of machine drawing are covered in Module F. Finally, in Module G, the book introduces computer-aided drafting (CAD) to make the readers familiar with the state-of-the-art

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techniques of drafting. **KEY FEATURES** : Follows the International Standard Organization (ISO) code of practice for drawing. Includes a large number of dimensioned illustrations, worked-out examples, and Polytechnic questions and answers to explain the geometrical drawing process. Contains chapter-end exercises to help students develop their drawing skills.

Basic Electrical Engineering is a core course for the first-year students of all engineering disciplines across the country. This course enables them to apply the basic concepts of Electrical engineering for multi-disciplinary tasks, and also lays the foundation for higher level courses in electrical and electronics engineering degrees. An established hallmark, this revised edition of the book continues to dwell on all the key concepts and applications in the field and covers the subject in its entirety. Curated with great care, it provides an unmatched exposure to fundamentals of Electricity, Network theory, Electric machines, and Measuring instruments. Rich pool of problems and appendices enhance the utility of the book and make it a lasting resource for students as well as instructors. **Highlights:** 1. Complete coverage of latest AICTE curriculum 2. New chapters on \* Renewable Energy Sources \* Semiconductor devices and their applications \* DC-DC converters and Inverters \* Digital Electronics and Communication Engineering 3. New appendices on \*

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Electrical Safety \* Applications of Electrical motors \* Components of cells and battery \* Switch Mode Power Supply (SMPS) and Uninterruptible Power Supply (UPS)4. Supports outcome-based learning approach

Basic Electrical Engineering has been written as a core course for all engineering students viz. electronics and communication engineering, computer engineering, civil engineering, mechanical engineering etc. Since this course will normally be offered at the first year level of engineering, the author has made modest effort to give in a concise form, various features of Basic Electrical Engineering using simple language and thorough solved examples, avoiding the rigorous of mathematics. This book deals with the fundamentals of electrical engineering concepts like design & application of circuitry, equipment for power generation & distribution and machine control. The increasing requirement for Junior Engineers/technicians in PSUs has created a large job opportunities for the diploma holders all over India. Every PSU conducts its own Qualifying exam Based on the vacancies available for various positions such as Junior Engineer and Technician. This series has been thoroughly updated to equip the diploma engineers appearing for the exams of BHEL, BEL, gail, IOCL, HPCL, ONGC, DMRC, DRDO, Railway, Staff Selection Commission and other diploma engineering competitive examinations. It aids in fast

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revision through key notes such as terms, definitions and formulae. The series also provides conceptual clarity to ease in attempting questions. A vast collection of questions has been categorized under two levels-- questions for practice and Previous Years' questions of various PSU examinations to give you a feel of the actual exam. Features theory and key concepts in a systematically manner ample number of MCQs for practice in each br>Chapter previous years' questions to familiarize you with the pattern and level of the examination.

This book pieces together the jigsaw puzzle of Einstein's journey to discovering the special theory of relativity. Between 1902 and 1905, Einstein sat in the Patent Office and may have made calculations on old pieces of paper that were once patent drafts. One can imagine Einstein trying to hide from his boss, writing notes on small sheets of paper, and, according to reports, seeing to it that the small sheets of paper on which he was writing would vanish into his desk-drawer as soon as he heard footsteps approaching his door. He probably discarded many pieces of papers and calculations and flung them in the waste paper basket in the Patent Office. The end result was that Einstein published nothing regarding the special theory of relativity prior to 1905. For many years before 1905, he had been intensely concerned with the topic; in fact, he was busily working on the problem for seven

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or eight years prior to 1905. Unfortunately, there are no surviving notebooks and manuscripts, no notes and papers or other primary sources from this critical period to provide any information about the crucial steps that led Einstein to his great discovery. In May 1905, Henri Poincaré sent three letters to Hendrik Lorentz at the same time that Einstein wrote his famous May 1905 letter to Conrad Habicht, promising him four works, of which the fourth one, Relativity, was a rough draft at that point. In the May 1905 letters to Lorentz, Poincaré presented the basic equations of his 1905 “Dynamics of the Electron”, meaning that, at this point, Poincaré and Einstein both had drafts of papers relating to the principle of relativity. The book discusses Einstein’s and Poincaré’s creativity and the process by which their ideas developed. The book also explores the misunderstandings and paradoxes apparent in the theory of relativity, and unravels the subtleties and creativity of Einstein.

The VTAC eGuide is the Victorian Tertiary Admissions Centre’s annual guide to application for tertiary study, scholarships and special consideration in Victoria, Australia. The eGuide contains course listings and selection criteria for over 1,700 courses at 62 institutions including universities, TAFE institutes and independent tertiary colleges.

A synthesis of nearly 2,000 articles to help make engineers better educators While a significant body of knowledge has

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evolved in the field of engineering education over the years, much of the published information has been restricted to scholarly journals and has not found a broad audience. This publication rectifies that situation by reviewing the findings of nearly 2,000 scholarly articles to help engineers become better educators, devise more effective curricula, and be more effective leaders and advocates in curriculum and research development. The author's first objective is to provide an illustrative review of research and development in engineering education since 1960. His second objective is, with the examples given, to encourage the practice of classroom assessment and research, and his third objective is to promote the idea of curriculum leadership. The publication is divided into four main parts: Part I demonstrates how the underpinnings of education—history, philosophy, psychology, sociology—determine the aims and objectives of the curriculum and the curriculum's internal structure, which integrates assessment, content, teaching, and learning Part II focuses on the curriculum itself, considering such key issues as content organization, trends, and change. A chapter on interdisciplinary and integrated study and a chapter on project and problem-based models of curriculum are included Part III examines problem solving, creativity, and design Part IV delves into teaching, assessment, and evaluation, beginning with a chapter on the lecture, cooperative learning, and teamwork The book ends with a brief, insightful forecast of the future of engineering education. Because this is a practical tool and reference for engineers, each chapter is self-contained and may be read independently of the others. Unlike other works in engineering education, which are generally intended for educational researchers, this publication is written not only for researchers in the field of engineering education, but also for all engineers who teach. All readers acquire a host of practical skills and knowledge in

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the fields of learning, philosophy, sociology, and history as they specifically apply to the process of engineering curriculum improvement and evaluation.

' Wisdom of the Martians of Science refers to five scientists whose brilliance contributed to shaping the modern world. John von Neumann was a pioneer of the modern computer; Theodore von Kármán was the scientist behind the US Air Force; Leo Szilard initiated the development of nuclear weapons; the Nobel laureate Eugene P Wigner was the world's first nuclear engineer; and Edward Teller was the father of the hydrogen bomb. They were born and raised in Budapest, were forced out of Hungary and then from Germany, they became Americans, and devoted themselves to the defense of the United States and the Free World. They contributed significant discoveries to fundamental science ranging from the properties of materials to the application of the symmetry principle in physics, to creating information theory, to game theory. The areas in which we can learn about their wisdom include applications of science to past, present and future real-world needs; defense; education; environment; human nature; humor; politics; religion; weather modification, and others. This book shows the wisdom of the Martians by presenting their thoughts and ideas in their own words and placing them into context. Their wisdom is intriguing, witty, provocative and thought provoking. It extended over many aspects of life and culture that impinge on our existence. While we cannot always agree with what they say, they are never boring. The power of their words and their philosophies will inspire the readers to pursue their own dreams. Contents: Introduction John von Neumann's Wisdom Theodore von Kármán's Wisdom Leo Szilard's Wisdom Eugene P Wigner's Wisdom Edward Teller's Wisdom Final Thoughts Readership: Scientists and lay persons. Keywords: John von Neumann; Theodore von

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Kármán;Leo Szilard;Edward Teller;Eugene Wigner;Martians of Science "This book is about five famous scientists, whose lives followed similar paths in the rocky terrains of the twentieth century. As Jewish–Hungarians they had to immigrate to the United States; as outstanding scientists, they were leading figures in the development of modern physics and computer science; and as believers in democracy and freedom, they assumed important roles in the global political fight for these ideas. The book by Balazs Hargittai and István Hargittai presents their views, feelings and wisdom through quotes from their writings, with comments from the authors. This makes a fascinating, memorable and sometimes provocative reading." László Lovász President of the Hungarian Academy of Sciences and Wolf-Prize Laureate Mathematician "Balazs and István Hargittai have produced a wonderful book, which should be on every scientist's coffee table and in the reading room of every university library. The book is not only immensely interesting, but also illustrated with an exceptional collection of photographs." Anders Bårány former Deputy Director of the Nobel Museum, Stockholm "Wisdom comes with age, yet much of the wisdom collected here was acquired long before its time. Mathematical talent gave these five Hungarians an early start, sharpened by the turmoil in Europe through which they were forced to make their escape. The refuge they found in America gave them time and opportunity to reflect. Here, set in just the right amount of historical context, is a group portrait of their time. Insights abound — yet the miracle of how this constellation of genius appeared at this critical moment in history remains no less astonishing for being so well explained." George Dyson author of Turing's Cathedral: The Origin of the Digital Universe "Wisdom of the Martians of Science is unputdownable for anyone curious about how science in the mid-twentieth century transformed our planet.

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Five Hungarians, the "Martians", in America led this transformation. Geniuses all but each very different. We hear them in their words, placed in context, to marvel how oppression and adversity did not bend their drive. No matter what our opinions of each of them, and some such as Teller generate strong responses, we cannot but be amazed at their "octopus-like" approaches. Their tentacles curl around every problem from basic to applied, from politics to defence, from making bombs to making peace. These are the Hargittais at their best, taking us back in time to sit on a roller-coaster ride through science. Fasten your seat belts and enjoy." K VijayRaghavan FRS, Distinguished Professor and former Director of The National Centre for Biological Sciences, Bangalore "I recommend highly the Hargittais" book. It is a stimulating read of the thinking and views of five Hungarian born scientists (the fictional Martians). They significantly contributed to fundamental changes of our life from the harnessing of the energy of the atom (and the need to live with the atom bomb) to the emergence of the computer age." George A Olah Nobel Laureate in Chemistry, 1994 "Five scientific pioneers were outstanding geniuses, first as a group of Budapest boys, then as bravely original individuals in their science, social ideas, and spiritual insights. This book reveals both their brilliance and their humanity." William Lanouette author of Genius in the Shadows: A Biography of Leo Szilard, the Man Behind the Bomb "Wisdom of the Martians of Science is a strong and often charming group profile of five great Hungarian scientists of an earlier age. The book is simple in structure, learned and reasonable in tone, and generous with photographs and telling details. It is a marvelous book and I hope that it finds a wide audience." Andrew Szanton co-author of The Recollections of Eugene P Wigner "No one is better acquainted with the lives of the Martians of Science — five Hungarian geniuses who put their

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extraordinary talents to work in the cause of democracy and freedom — than the father-and-son team of Istvan and Balazs Hargittai. With widely-varying personalities, from the imperious Edward Teller to the courteous, soft-spoken Eugene Wigner, the five had in common, in addition to their incredible brains, a shared history as émigré Hungarian Jews who made new lives in the United States, and whose contributions in the fields of physics, rocketry, and computer development played a critical role in their adopted country's victory in World War II. Much has been written about these men, but only the Hargittais have allowed us a glimpse into their souls through their own words, put in context by the authors. I am the daughter of one of the Martians, John von Neumann, and knew several of the others personally, but this group portrait has given me new insights that I treasure."

Marina v N Whitman Professor of Business Administration & Public Policy, University of Michigan, Ann Arbor, and author of *The Martian's Daughter* '

What is the meaning of the American Dream? In *My Path to an American Dream*, M. D. Polidori uses his childhood experiences and wisdom gained throughout the years to reveal the story of his life and the pursuit of his dream. Covering his childhood in Italy, his experiences in America, and continuing through his time in the Second World War and beyond, Polidori details his attempts to find — and fully live — his American Dream.

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