

# Basic Electrical And Electronics Engineering Muthusubramanian

*Occupational Outlook Handbook* **Electrical Engineering 101** *Principle of Electrical Engineering and Electronics* **Electronic and Electrical Engineering Lessons in Electric Circuits: An Encyclopedic Text & Reference Guide (6 Volumes Set)** **Wiley Electrical and Electronics Engineering Dictionary** **Advanced Electrical and Electronics Engineering** **Electrical Engineering 101** **Fundamentals of Electrical Engineering and Electronics** **Innovations in Electrical and Electronic Engineering** **Basic Electrical and Electronics Engineering: Electronics Engineer's Reference Book** **Principles of Electrical Engineering and Electronics** **Wiley Encyclopedia of Electrical and Electronics Engineering** **A Dictionary of Electronics and Electrical Engineering** **ELECTRICAL AND ELECTRONICS ENGINEERING MATERIALS** **Advances in Electronics Engineering** **An Integrated Approach to Electrical and Electronics Engineering** **Computational Methodologies for Electrical and Electronics Engineers** **Introduction to Electronic Engineering** **Electrical Engineering Fundamentals** **Innovations in Electrical and Electronic Engineering** **Electrical and Electronics Engineering** **Fundamentals of Electrical Engineering** **1 INNOVATIONS IN ELECTRICAL AND ELECTRONIC ENGINEERING** **Basic Electrical and Electronics Engineering** **Practical Electrical Engineering** **Electronics Engineer's Reference Book** **Pocket Book of Electrical Engineering Formulas** **Basic Electrical and Electronics Engineering** **Electrical Engineering: Know It All** **Problems in Electrical Engineering: Power Engineering and Electronics with Answers Partly Solved in S.I. Units, 9e** **Principles of Electrical Machines** **Electrical and Electronic Engineering: Theory, Design and Applications** **Electrical and Electronics Engineering for Scientists and Engineers** **Basic Electrical and Electronics Engineering 2** **Physics for Electronics Engineering** **Advances in Electrical Engineering and Electrical Machines** **Fundamentals of Electrical Engineering** **Recent Advances in Electrical and Electronic Engineering and Computer Science**

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**ELECTRICAL AND ELECTRONICS ENGINEERING MATERIALS** Jul 17 2021 The book has been written in a lucid and systematic manner with necessary mathematical derivations, illustrations, examples and practise exercises providing detailed description of the materials used in electrical and electronics engineering and their applications. Beginning with the atomic structure of the materials, the book deals with the behaviour of dielectrics and their properties under the influence of DC and AC fields. It covers the magnetic properties of materials including soft and hard magnetic materials and their applications. The text discusses fabrication techniques and the basic physics involved in the operation of the semiconductors, junction transistors and rectifiers. It includes detailed description of optical properties of the materials (optical materials), photovoltaic materials and the materials used in lasers and optical fibres. It also incorporates the latest information on the materials used for the direct energy conversion and fuel cell technologies. This book is primarily intended for undergraduate students of electrical engineering and electrical and electronics engineering. Key features • Contains sufficient numbers of solved numerical examples. • Includes a set of review questions and a list of references at the end of each chapter. • Provides a set of numerical problems in some of the chapters, wherever required. • Contains more than 150 diagrammatic illustrations for easy understanding of the concepts.

**Advances in Electronics Engineering** Jun 15 2021 This book presents the proceedings of ICCEE 2019, held in Kuala Lumpur, Malaysia, on 29th-30th April 2019. It includes the latest advances in electrical engineering and electronics from leading experts around the globe.

**Electrical Engineering 101** Mar 25 2022 **Electrical Engineering 101** covers the basic theory and practice of electronics, starting by answering the question "What is electricity?" It goes on to explain the fundamental principles and components, relating them constantly to real-world examples. Sections on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, EE101 delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes more real-world examples and a glossary of formulae. It contains new coverage of: Microcontrollers FPGAs Classes of components Memory (RAM, ROM, etc.) Surface mount High speed design Board layout Advanced digital electronics (e.g. processors) Transistor circuits and circuit design Op-amp and logic circuits Use of test equipment Gives readers a simple explanation of complex concepts, in terms they can understand and relate to everyday life. Updated content throughout and new material on the latest technological advances. Provides readers with an invaluable set of tools and references that they can use in their everyday work.

**Innovations in Electrical and Electronic Engineering** Jan 23 2022 This book presents selected papers from the 2021 International Conference on Electrical and Electronics Engineering (ICEEE 2020), held on January 2-3, 2021. The book focuses on the current developments in various fields of electrical and electronics engineering, such as power generation, transmission and distribution; renewable energy sources and technologies; power electronics and applications; robotics; artificial intelligence and IoT; control, automation and instrumentation; electronics devices, circuits and systems; wireless and optical communication; RF and microwaves; VLSI; and signal processing. The book is a valuable resource for academics and industry professionals alike.

**Lessons in Electric Circuits: An Encyclopedic Text & Reference Guide (6 Volumes Set)** Jun 27 2022

**Pocket Book of Electrical Engineering Formulas** Jun 03 2020 **Pocket Book of Electrical Engineering Formulas** provides key formulas used in practically all areas of electrical engineering and applied mathematics. This handy, pocket-sized guide has been organized by topic field to make finding information quick and easy. The book features an extensive index and is an excellent quick reference for electrical engineers, educators, and students.

**Basic Electrical and Electronics Engineering** May 03 2020 Designed to serve as a core textbook for undergraduate first year engineering students. It presents the topics of basic electrical and electronics engineering in simple, easy-to-understand language. - Fundamentals are explained with suitable examples. - Core concepts are presented through examination-oriented solved problems. - Practice problems are included at the end of each chapter for self-evaluation. - Answers to practice problems are included with detailed explanations. - Includes elaborate illustration and circuit diagrams.

**Electrical Engineering 101** Sep 30 2022 **Electrical Engineering 101** covers the basic theory and practice of electronics, starting by answering the question "What is electricity?" It goes on to explain the fundamental principles and components, relating them constantly to real-world examples. Sections on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, EE101 delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes more real-world examples and a glossary of formulae. It contains new coverage of: Microcontrollers FPGAs Classes of components Memory (RAM, ROM, etc.) Surface mount High speed design Board layout Advanced digital electronics (e.g. processors) Transistor circuits and circuit design Op-amp and logic circuits Use of test equipment Gives readers a simple explanation of complex concepts, in terms they can understand and relate to everyday life. Updated content throughout and new material on the latest technological advances. Provides readers with an invaluable set of tools and references that they can use in their everyday work.

**Fundamentals of Electrical Engineering I** Nov 08 2020

**Electrical Engineering: Know It All** Apr 01 2020 The **Newnes Know It All** Series takes the best of what our authors have written to create hard-working desk references that will be an engineer's first port of call for key information, design techniques and rules of thumb. Guaranteed not to gather dust on a shelf! Electrical engineers need to master a wide area of topics to excel. The **Electrical Engineering Know It All** covers every angle including Real-World Signals and Systems, Electromagnetics, and Power systems. A 360-degree view from our best-selling authors Topics include digital, analog, and power electronics, and electric circuits The ultimate hard-working desk reference; all the essential information, techniques and tricks of the trade in one volume

**Electrical and Electronic Engineering: Theory, Design and Applications** Dec 30 2019 Electrical engineering studies electricity and electromagnetism for creating devices to regulate and control electric current and electronic engineering is concerned with the creation of circuits that can contain and transmit electricity. This book on electrical and electronic engineering elucidates new techniques and applications in a multidisciplinary approach. The objective of this book is to give a general view of the different areas of these allied fields, and their applications. It presents the complex subject of electrical and electronic engineering in the most comprehensible and easy to understand language. This book, with its detailed analyses and data, will prove immensely beneficial to professionals and students involved in this area.

**Electronics Engineer's Reference Book** Jul 05 2020 **Electronics Engineer's Reference Book**, Sixth Edition is a five-part book that begins with a synopsis of mathematical and electrical techniques used in the analysis of electronic systems. Part II covers physical phenomena, such as electricity, light, and radiation, often met with in electronic systems. Part III contains chapters on basic electronic components and materials, the building blocks of any electronic design. Part IV highlights electronic circuit design and instrumentation. The last part shows the application areas of electronics such as radar and computers.

**Basic Electrical and Electronics Engineering** Sep 06 2020

**Introduction to Electronic Engineering** Mar 13 2021

**Wiley Electrical and Electronics Engineering Dictionary** May 27 2022 "The Wiley Electrical and Electronics Engineering Dictionary provides researchers, working engineers, students, and those in related disciplines with the definitions of all the terms and acronyms used in today's electrical and electronics literature. This comprehensive resource saves time by presenting the desired information in the place it is first looked up - and in a straightforward manner that allows this content to be more readily assimilated." "Utilizing information drawn from textbooks, handbooks, treatises, instruction manuals, theses, articles, reports, and Usenet postings, the Wiley Electrical and Electronics Engineering Dictionary is the most complete dictionary covering the entire field of electrical and electronics engineering."--BOOK JACKET.

**Basic Electrical and Electronics Engineering 2** Oct 27 2019

**Computational Methodologies for Electrical and Electronics Engineers** Apr 13 2021 Artificial intelligence has been applied to many areas of science and technology, including the power and energy sector. Renewable energy in particular has experienced the tremendous positive impact of these developments. With the recent evolution of smart energy technologies, engineers and scientists working in this sector need an exhaustive source of current knowledge to effectively cater to the energy needs of citizens of developing countries. **Computational Methodologies for Electrical and Electronics Engineers** is a collection of innovative research that provides a complete insight and overview of the application of intelligent computational techniques in power and energy. Featuring research on a wide range of topics such as artificial neural networks, smart grids, and soft computing, this book is ideally designed for programmers, engineers, technicians, ecologists, entrepreneurs, researchers, academicians, and students.

**An Integrated Approach to Electrical and Electronics Engineering** May 15 2021 The study of electricity and related devices falls under the discipline of electrical engineering. Electronic engineering is a branch of electrical engineering focusing on diverse electrical components for designing advanced devices. This book unfolds the innovative aspects of electrical and electronics engineering which will be crucial for the progress of this field in the future. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this area of study. Scientists and students actively engaged in this field will find this book full of unexplored concepts and their applications.

**Practical Electrical Engineering** Aug 06 2020 This textbook provides comprehensive, in-depth coverage of the fundamental concepts of electrical engineering. It is written from an engineering perspective, with special emphasis on circuit functionality and applications. Reliance on higher-level mathematics and physics, or theoretical proofs has been intentionally limited in order to prioritize the practical aspects of electrical engineering. This text is therefore suitable for a number of introductory circuit courses for other majors such as mechanical, biomedical, aerospace, civil, architecture, petroleum, and industrial engineering. The authors' primary goal is to teach the aspiring engineering student all fundamental tools needed to understand, analyze and design a wide range of practical circuits and systems. Their secondary goal is to provide a comprehensive reference, for both major and non-major students as well as practicing engineers.

**Problems in Electrical Engineering: Power Engineering and Electronics with Answers Partly Solved in S.I. Units, 9e** Mar 01 2020

**Physics for Electronics Engineering** Sep 26 2019 As per the New syllabus & Regulations 2017 prescribed by the Anna University, Chennai, this book "PHYSICS FOR ELECTRONICS ENGINEERING (PH8253)" has been written by Dr. G. SHANMUGAM, Former Assistant Professor, Department of Physics, Vel Tech, Chennai-600 062 for the second semester B.E/B. Tech degree course in Electrical and Electronics Engineering (EEE), Electronics and Communication Engineering (ECE), Electronics and Instrumentation Engineering (E&I), Instrumentation and Control Engineering (ICE), Bio Medical Engineering (BME), Medical Electronics (ME), and Computer and Communication Engineering (CC). This book deals with the various physical properties of materials that are of practical utility. It mainly focuses on the changes in physical properties of materials arising from the distribution of electrons in metals, semiconductors and insulators and also covers topics on the properties of magnetic and dielectric materials, optical properties of micro-electronic devices and nanoelectronic devices.

**Innovations in Electrical and Electronic Engineering** Jan 11 2021 This book features selected high-quality papers presented at International Conference on Electrical and Electronics Engineering (ICEEE 2022), jointly organized by University of Malaya and Bharath Institute of Higher Education and Research India during January 8-9, 2022, at NCR New Delhi, India. The book focuses on current development in the fields of electrical and electronics engineering. The book covers electrical engineering topics-power and energy including renewable energy, power electronics and applications, control, and automation and instrumentation and book two covers the areas of robotics, artificial intelligence and IoT, electronics devices, circuits and systems, wireless and optical communication, RF and microwaves, VLSI, and signal processing. The book is beneficial for readers from both academia and industry.

**Fundamentals of Electrical Engineering** Jul 25 2019 Real-world engineering problems are rarely, if ever, neatly divided into mechanical, electrical, chemical, civil, and other categories. Engineers from all disciplines eventually encounter computer and electronic controls and instrumentation, which require at least a basic knowledge of electrical and other engineering specialties, as well as associated economics, and environmental, political, and social issues. Co-authored by Charles Gross—one of the most well-known and respected professors in the field of electric machines and power engineering—and his world-renowned colleague Thad Roppel, **Fundamentals of Electrical Engineering** provides an overview of the profession for engineering professionals and students whose specialization lies in areas other than electrical. For instance, civil engineers must contend with commercial electrical service and lighting design issues. Mechanical engineers have to deal with motors in HVAC applications, and chemical engineers are forced to handle problems involving process control. Simple and easy-to-use, yet more than sufficient in rigor and coverage of fundamental concepts, this resource teaches EE fundamentals but omits the typical analytical methods that hold little relevance for the audience. The authors provide many examples to illustrate concepts, as well as homework problems to help readers understand and apply presented material. In many cases, courses for non-electrical engineers, or non-EEs, have presented watered-down classical EE material, resulting in

unpopular courses that students hate and senior faculty members understandingly avoid teaching. To remedy this situation—and create more well-rounded practitioners—the authors focus on the true EE needs of non-EEs, as determined through their own teaching experience, as well as significant input from non-EE faculty. The book provides several important contemporary interdisciplinary examples to support this approach. The result is a full-color modern narrative that bridges the various EE and non-EE curricula and serves as a truly relevant course that students and faculty can both enjoy.

*Occupational Outlook Handbook* Nov 01 2022

**Wiley Encyclopedia of Electrical and Electronics Engineering** Sep 18 2021 Electrical and electronics engineering entails the design, development and implementation of electrical and electronic power systems. This may be as simple as designing a light bulb or as complex as the development of robotics for automating manufacturing. This Encyclopedia covers both the theory of electrical and electronics engineering as well as practical applications for industry. The annual update volume describes the latest developments in the field.

**A Dictionary of Electronics and Electrical Engineering** Aug 18 2021 This popular dictionary, formerly published as the Penguin Dictionary of Electronics, has been extensively revised and updated, providing more than 5,000 clear, concise, and jargon-free A-Z entries on key terms, theories, and practices in the areas of electronics and electrical science. Topics covered include circuits, power, systems, magnetic devices, control theory, communications, signal processing, and telecommunications, together with coverage of applications areas such as image processing, storage, and electronic materials. The dictionary is enhanced by dozens of equations and nearly 400 diagrams. It also includes 16 appendices listing mathematical tables and other useful data, including essential graphical and mathematical symbols, fundamental constants, technical reference tables, mathematical support tools, and major innovations in electricity and electronics. More than 50 useful web links are also included with appropriate entries, accessible via a dedicated companion website. A Dictionary of Electronics and Electrical Engineering is the most up-to-date quick reference dictionary available in its field, and is a practical and wide-ranging resource for all students of electronics and of electrical engineering.

**Electrical Engineering Fundamentals** Feb 09 2021 Many, in their quest for knowledge in engineering, find typical textbooks intimidating. Perhaps due to an extensive amount of physics theory, an overwhelming barrage of math, and not enough practical application of the engineering principles, laws, and equations. Therein lies the difference between this text and those voluminous and daunting conventional university engineering textbooks. This text leads the reader into more complex and abstract content after explaining the electrical engineering concepts and principles in an easy to understand fashion, supported by analogies borrowed from day-to-day examples and other engineering disciplines. Many complex electrical engineering concepts, for example, power factor, are examined from multiple perspectives, aided by diagrams, illustrations, and examples that the reader can easily relate to. Throughout this book, the reader will gain a clear and strong grasp of electrical engineering fundamentals, and a better understanding of electrical engineering terms, concepts, principles, laws, analytical techniques, solution strategies, and computational techniques. The reader will also develop the ability to communicate with professional electrical engineers, controls engineers, and electricians on their "wavelength" with greater confidence. Study of this book can help develop skills and preparation necessary for succeeding in the electrical engineering portion of various certification and licensure exams, including Fundamentals of Engineering (FE), Professional Engineering (PE), Certified Energy Manager (CEM), and many other trade certification tests. This text can serve as a compact and simplified electrical engineering desk reference. This book provides a brief introduction to the NEC®, the Arc-Flash Code, and a better understanding of electrical energy and associated cost. If you need to gain a better understanding of myriad battery alternatives available in the market, their strengths and weaknesses, and how batteries compare with capacitors as energy storage devices, this book can be a starting point. This book is ideal for engineers, engineering students, facility managers, engineering managers, program/project managers, and other executives who do not possess a current working knowledge of electrical engineering. Because of the simple explanations, analogies, and practical examples employed by the author, this book serves as an excellent learning tool for non-engineers, technical writers, attorneys, electrical sales professionals, energy professionals, electrical equipment procurement agents, construction managers, facility managers, and maintenance managers.

*Electrical and Electronics Engineering* Dec 10 2020

**Principles of Electrical Engineering and Electronics** Oct 20 2021 The General Response to the first edition of the book was very encouraging. The authors feel that their work has been amply rewarded and wish to express their deep sense of gratitude, in common to the large number of readers who have used it, and in particular to those whom they have sent helpful suggestions from time to time for the improvement of the book. To enhance the utility of the book, it has been decided to bring out the multicolor edition of the book. There are three salient features of the multicolor edition.

*Electrical and Electronics Engineering for Scientists and Engineers* Nov 28 2019 Designed to cover a wide range of topics running the gamut from principles underlying the behavior of electric circuits to microprocessors. Focuses on mathematical derivations and physical laws. Difficult concepts are explained in-depth. Includes a copious amount of solved examples and practical illustrations.

**Electronics Engineer's Reference Book** Nov 20 2021 Electronics Engineer's Reference Book, 4th Edition is a reference book for electronic engineers that reviews the knowledge and techniques in electronics engineering and covers topics ranging from basics to materials and components, devices, circuits, measurements, and applications. This edition is comprised of 27 chapters; the first of which presents general information on electronics engineering, including terminology, mathematical equations, mathematical signs and symbols, and Greek alphabet and symbols. Attention then turns to the history of electronics; electromagnetic and nuclear radiation; the influence of the ionosphere and the troposphere on the propagation of radio waves; and basic electronic circuits. The reader is also introduced to devices such as electron valves and tubes, integrated circuits, and solid-state devices. The remaining chapters focus on other areas of electronics engineering, including sound and video recording; electronic music and radio astronomy; and applications of electronics in weather forecasting, space exploration, and education. This book will be of value to electronics engineers and professionals in other engineering disciplines, as well as to scientists, students, management personnel, educators, and readers with a general interest in electronics and their applications.

**Fundamentals of Electrical Engineering and Electronics** Feb 21 2022 This book extensive pruning of the solved Examples in the text. Majority of the old examples have been replaced by questions set in the latest examination papers of different engineering colleges and technical institutions.

**Advanced Electrical and Electronics Engineering** Apr 25 2022 2010 First International Conference on Electrical and Electronics Engineering was held in Wuhan, China December 4-5. Advanced Electrical and Electronics Engineering book contains 72 revised and extended research articles written by prominent researchers participating in the conference. Topics covered include, Power Engineering, Telecommunication, Control engineering, Signal processing, Integrated circuit, Electronic amplifier, Nano-technologies, Circuits and networks, Microelectronics, Analog circuits, Digital circuits, Nonlinear circuits, Mixed-mode circuits, Circuits design, Sensors, CAD tools, DNA computing, Superconductivity circuits. Electrical and Electronics Engineering will offer the state of art of tremendous advances in Electrical and Electronics Engineering and also serve as an excellent reference work for researchers and graduate students working with/on Electrical and Electronics Engineering.

**Principle of Electrical Engineering and Electronics** Aug 30 2022 This book has been revised thoroughly. A large number of practical problems have been added to make the book more useful to the students. Also included, multiple-choice questions at the end of each chapter.

*Recent Advances in Electrical and Electronic Engineering and Computer Science* Jun 23 2019 This book highlights recent research works on computer science, electrical and electronic engineering which was presented virtually during the 3rd International Conference on Computer Science, Electrical & Electronic Engineering (ICCEE 2021), August 2021. Written by leading researchers and industry professionals, the papers highlight recent advances and address current issues in the respective fields.

**Advances in Electrical Engineering and Electrical Machines** Aug 25 2019 With success of ICEEE 2010 in Wuhan, China, and December 4 to 5, 2010, the second International Conference of Electrical and Electronics Engineering (ICEEE 2011) will be held in Macau, China, and December 1 to 2, 2011. ICEEE is an annual conference to call together researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Electrical and Electronics Engineering along with Computer Science and Technology, Communication Technology, Artificial Intelligence, Information Technology, etc. This year ICEEE is sponsored by International Industrial Electronics Center, Hong Kong. And based on the deserved reputation, more than 750 papers have been submitted to ICEEE 2011, from which about 98 high quality original papers have been selected for the conference presentation and inclusion in the "Electrical and Electronics Engineering" book based on the referees' comments from peer-reviewed. We expect that the Electrical and Electronics Engineering book will be a trigger for further related research and technology improvements in the importance subject including Power Engineering, Telecommunication, Integrated Circuit, Electronic amplifier, Nano-technologies, Circuits and networks, Microelectronics, Analog circuits, Digital circuits, Circuits design, Silicon devices, Thin film technologies, VLSI, Sensors, CAD tools, Molecular computing, Superconductivity circuits, Antennas technology, System architectures, etc.

**Principles of Electrical Machines** Jan 29 2020 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.

**INNOVATIONS IN ELECTRICAL AND ELECTRONIC ENGINEERING** Oct 08 2020 The book features selected high-quality papers presented at International Conference on Electrical and Electronics Engineering (ICEEE 2022), jointly organized by University of Malaya and Bharath Institute of Higher Education and Research India during January 8-9, 2022, at NCR New Delhi, India. The book focuses on current development in the fields of electrical and electronics engineering. The book covers electrical engineering topics—power and energy including renewable energy, power electronics and applications, control, and automation and instrumentation—and covers the areas of robotics, artificial intelligence and IoT, electronics devices, circuits and systems, wireless and optical communication, RF and microwaves, VLSI, and signal processing. The book is beneficial for readers from both academia and industry.

**Basic Electrical and Electronics Engineering**: Dec 22 2021 Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. The book allows students outside electrical and electronics engineering to easily

**Electronic and Electrical Engineering** Jul 29 2022 A third edition of this popular text which provides a foundation in electronic and electrical engineering for HND and undergraduate students. The book offers exceptional breadth of coverage without sacrificing depth. It uses a wealth of practical examples to illustrate the theory, and makes no excessive demands on the reader's mathematical skills. Ideal as a teaching tool or for self-study.