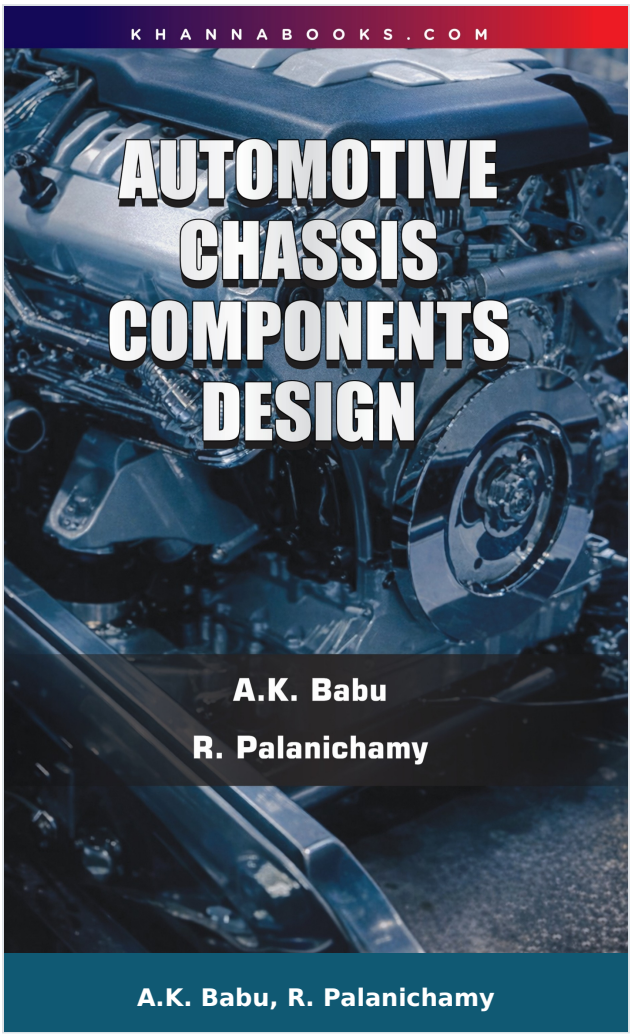


Automotive Chassis Components Design

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Product Description

Automotive Chassis Components Design

Automotive Chassis Components Design is a comprehensive academic and professional guide dedicated to the intricate engineering of a vehicle’s skeletal and foundational systems. Authored by A. K. Babu, the text serves as a vital bridge between theoretical mechanics and practical automotive design, focusing on the five basic components that define a modern automobile: the power plant, chassis, power train, body, and accessories. The book provides an in-depth exploration of the “running gear,” including the frame, suspension, steering, brakes, and wheels—systems that directly impact riding comfort, vehicle stability, and safety.

Designed for students of automotive and mechanical engineering, as well as practicing professionals in the automotive industry, the book maintains a rigorous academic tone while ensuring concepts are accessible through detailed diagrams and solved problems. Its core theme revolves around the functional integration of components to withstand dynamic and static loads, optimize maneuverability, and ensure passenger comfort. From the design of heavy-duty truck frames to the precise gear ratios of synchromesh gearboxes, this text provides the analytical tools required to design safe and efficient modern vehicles.

Salient Features:

• **Comprehensive Frame Analysis**: Detailed study of conventional, integral, and semi-integral frames, focusing on materials like carbon steel and their resistance to vertical bending and torsion.

• **Transmission System Engineering**: In-depth coverage of clutch requirements and gearbox types, including sliding mesh, constant mesh, and synchromesh systems for optimized torque delivery.

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• **Driveline Dynamics**: Technical exploration of propeller shafts and universal joints, with a focus on torsional strength, whirling speeds, and critical vibration avoidance.

• **Final Drive Mechanics**: Expert analysis of axle ratios and gear types, such as hypoid and worm-and-wheel drives, to enhance vehicle stability and quiet operation.

• **Axle and Load Design**: Comprehensive design methodologies for front and rear axles, examining load distribution, stresses, and the mechanics of semi-floating vs. full-floating types.

• **Advanced Suspension Systems**: Practical insights into leaf and coil springs, including the design of torsion bars and methods to reduce inter-leaf friction for better handling.

• **Steering Precision**: Rigorous examination of steering geometry, comparing Ackermann and Davis mechanisms to ensure true rolling and minimal tire wear during maneuvers.

• **Applied Problem Solving**: Every chapter is reinforced with design problems, exercise questions, and multiple-choice questions to test both theoretical knowledge and practical application.

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- Vehicle Frame
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- gearbox
- Driveline
- Final Drive
- Front Axie
- Rear Axie
- Suspension
- Steering

Author

A.K. Babu

A.K. Babu A.K.Babu is working as Associate Professor in the Department of Automobile Engineering, SRM Easwari Engineering College, Chennai, India. He has over 18 years of experience in teaching, research and industry. A.K.Babu, completed his Master Degree in Automobile Engineering from Madras Institute of Technology (M.I.T.), Anna University (1997). He has served in other countries like Malaysia, Ethiopia and Eritrea for more than 5 years. A.K.Babu has published considerable number of research papers in international journals and conferences. His research paper published in SAE Journal of Fuels and Lubricants awarded one the most outstanding papers in the year 2003.

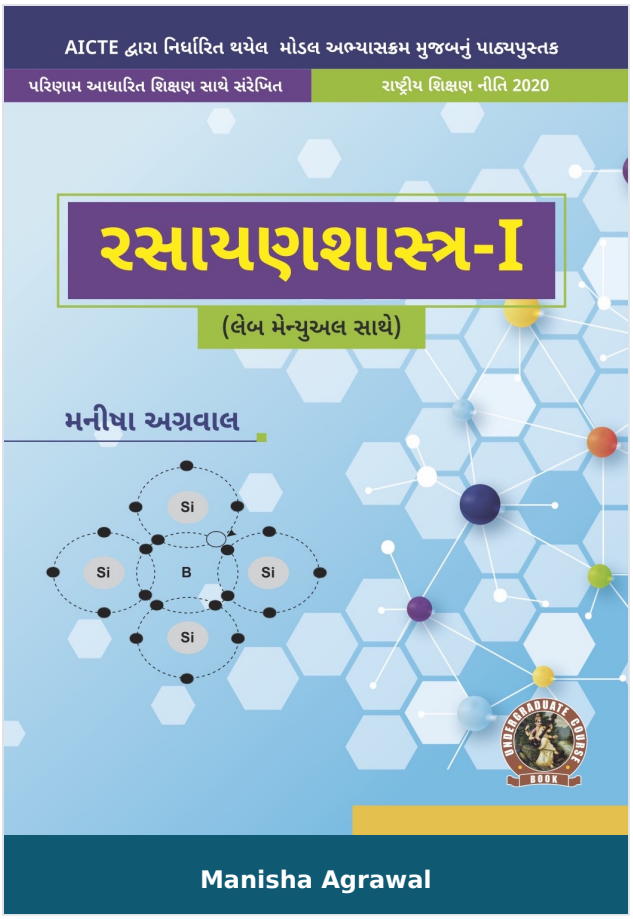
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Chemistry-I (with Lab Manual)

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Product Description

“Chemistry-I” is a compulsory paper for the first year Undergraduate course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education. Book covers seven topics- Atomic and molecular structure, Spectroscopic Technique and applications, Inter-molecular Forces and Potential Energy Surfaces, Use of Free Energy in Chemical Equilibrium, Periodic Properties, Stereo-chemistry, Organic Reactions and Synthesis of Drug Molecules. Each topic is written is easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test student’s comprehension.

Salient Features:

1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. Book Provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for us of ICT, Projects group discussion etc.

3. Students and teacher centric subject materials included in book with balanced and chronological manner.

4. Figures, tables, chemical equations and comparative charts are inserted to improve clarity of the topics.

5. Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

6. Solved and unsolved problems including numerical examples are solved with systematic steps.

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- Intermolecular Forces and Potential Energy Surfaces
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- Periodic Properties
- Stereochemistry and Organic Reactions
- Organic Reactions Synthesis of Drug Molecules
- Annexure
- Appendices

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Manisha Agrawal

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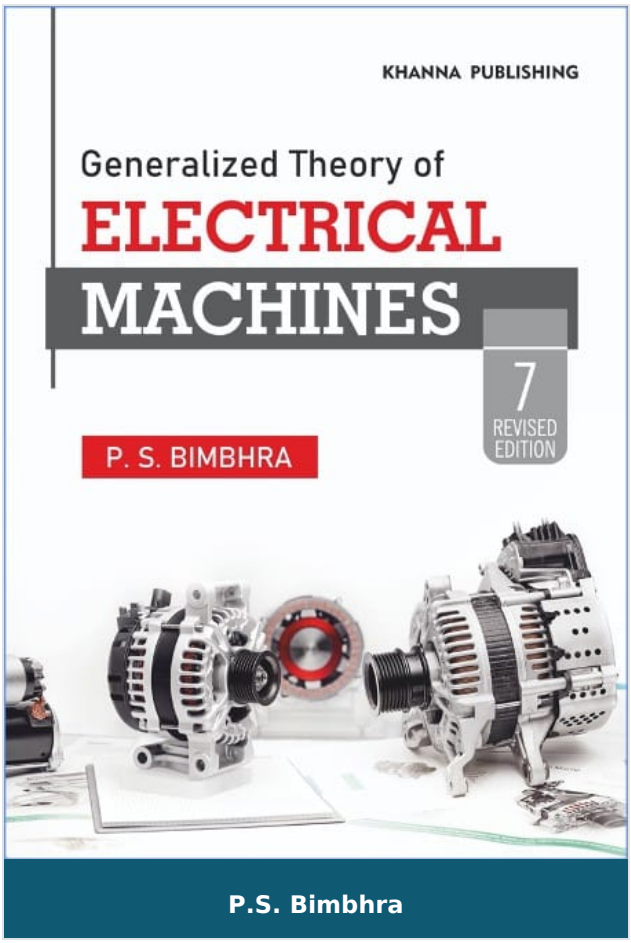
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Manisha Agrawal Dr. Manisha Agarwal is Dean, Basic Sciences at Chhattisgarh Swami Vivekanand Technical University Bhilai. Professor and head, Department of Chemistry at Rungta College of Engineering & Technology, Bhilai, (C.G.). She completed Ph. D. from Pt. Ravishankar Shukla University, Raipur in 1999. Since then she has been engaged in teaching and research. Dr. Manisha has authored several papers which have been published in SCI indexed International and National journals. She has organised more than 10 Conferences and workshops as convener among them four were International Conferences. She has credited five books as author, three patents as inventor and applicant and six Research Project Grants as Principal Investigator from Government Funding agencies like AICTE, CCOST and CSVTU. She has supervised 5 M. Phil. Students, 12 BE and Diploma students. Presently 6 research scholars are perusing Ph. D. under her supervision.

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Generalized Theory of Electrical Machines

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Product Description

This textbook “Generalized Theory of Electrical Machines” is based on the latest syllabus of the Universities and Educational Institutes. In this edition, some materials of the book has been rewritten so as to make the presentation easily comprehensible. More illustrative examples mainly from IAS, IES and GATE and other competitive examinations have been added and problems material with answers, at the end of each chapter, has been considerably enlarged.

Salient Features:

1. Elements of Generalized Theory
2. Linear Transformations in Machines
3. D.C. Machines
4. Polyphase Synchronous Machines
5. Polyphase Induction Machines
6. Single Phase Motors
7. A.C. Commutator Machines
8. Transformers
9. Special Machines
10. Appendices
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- SINGLE PHASE MOTORS
- A.C. COMMUTATOR MACHINES
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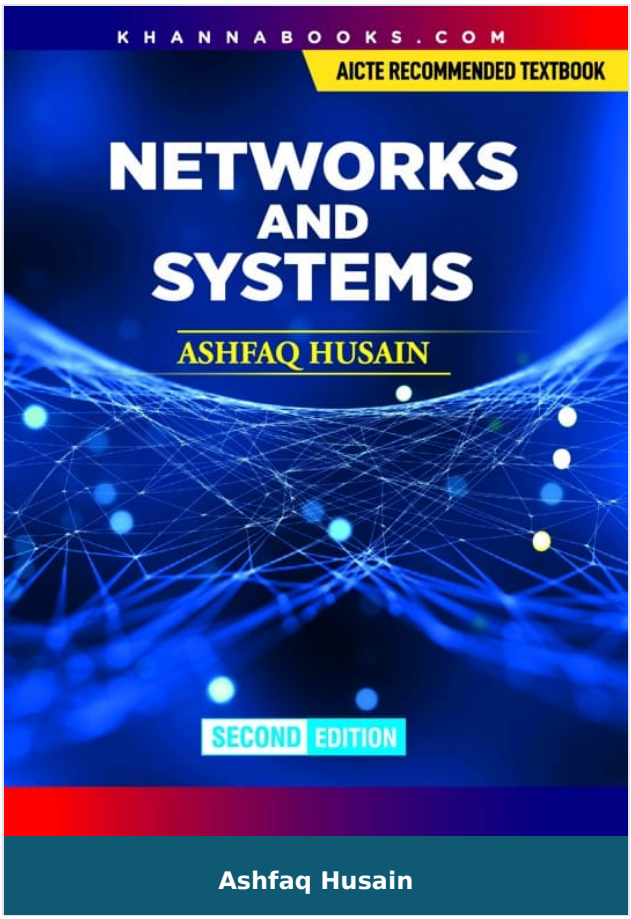
P.S. Bimbhra

Dr. P.S. Bimbhra retired as a professor of Electrical and Electronics Engineering from T.I.E.T. Patiala. A graduate of Punjab Engineering College, Chandigarh, he received his M.E. (Hons.) and Ph.D. from IIT Roorkee. He is fellow of the Institution of Engineers and a life member of ISTE. His areas of current interests include Electrical Machines, Power Electronics and Electric Drives.

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Product Description

This book is intended to serve as a textbook for BE., B. Tech, students of Electrical, Electronics, Computer, Instrumentation, Control and communication Engineering. It will also serve as a text reference for the students of diploma in Engineering. AMIE, GATE, UPSC Engineering services, IAS candidate would also find the book extremely useful. Subject matter in each chapter developed systematically from first principles. Written in a very simple language. Simple and clear explanation of concepts. Large number of carefully selected worked examples. Most simplified methods used. Step-by-step procedures given for solving problems. Ideally suited for self-study.

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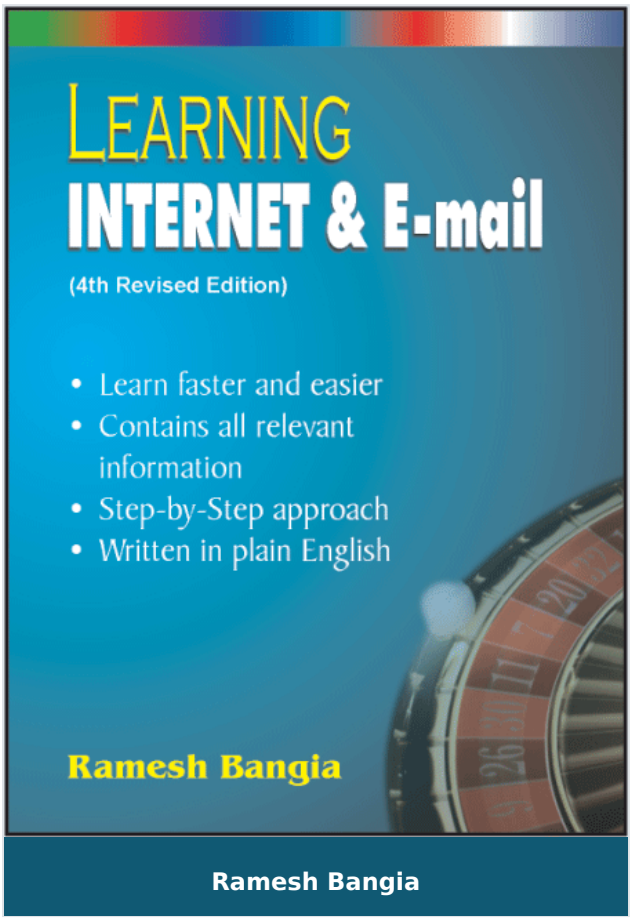
Ashfaq Husain

Mr. Ashfaq Husain, formerly Reader in Electrical Engineering, University Polytechnic, Faculty of Engineering and Technology, Aligarh Muslim University, Aligarh, has teaching experience of more than forty years and is the author of various successful textbooks. "

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Ramesh Bangia

Learning Internet & E-mail

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Product Description

This book gives a holistic information regarding the Internet and e-Mail creation and sending.It includes technical aspect of the complete process of how the webpage are made an how websites run in the Network Ecosystem.

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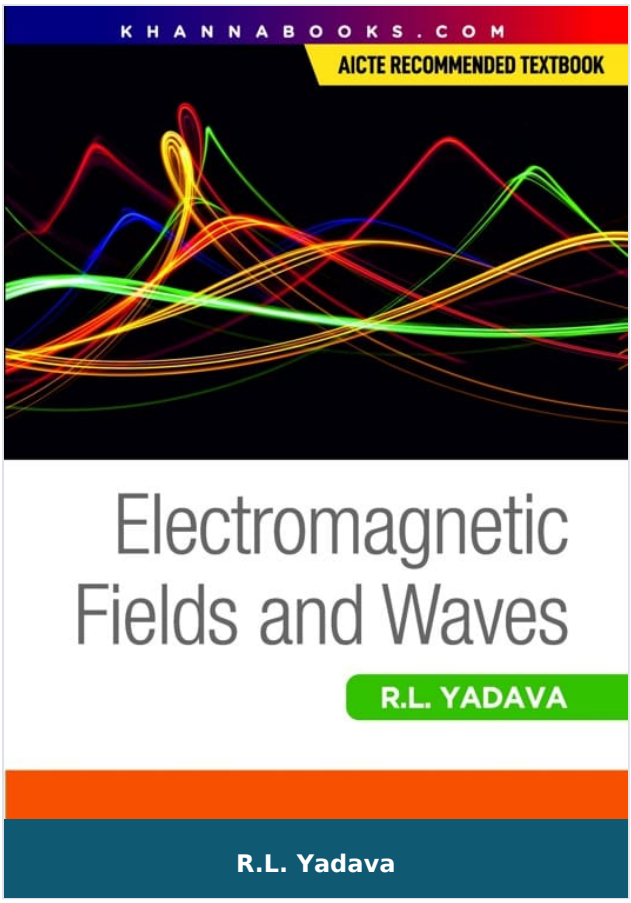
- Introduction to Internet
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- Electronics Mail (e-mail)
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- Telnet
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- Question and Keyboard Shortcuts of Internet Explorer

Author

Ramesh Bangia

Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools. Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the publishers in India. Though based in Delhi, his books are popular all over India and are

even exported to Middle Ease and African countries.



Electromagnetic Fields & Waves

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Product Description

This book is designed to serve as a textbook for UG and PG students of Electronics and Communication, Electronics and Electrical, Electronics & Instrumentation and Telecommunication Engineering branches. It provides a thorough understanding of the electromagnetic theory and their properties, application and also the modern trends in Electromagnetism in detail. Book also describes transmission lines, wave guides, as well as the effects of EMI/EMC, including impedance matching and antennas. Written in an easy-to-understand manner, the book includes several illustrative examples, objective-type questions and exercise Questions to reinforce the theoretical understanding of subject. Appendices provide information and expressions as well as design data for references.

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Author

R.L. Yadava

Dr. R.L. YADAVA, is Professor in the department of ECE, Galgotias College of Engg. and Technology, Gr. Noida, UP During his doctoral work he was associated with R&D project funded by DST, Govt. of India. After receiving Ph.D. degree, he joined VIT University, Vellore T.N, in 2001 and served as Head of Microwave Division, Coordinator R&D and

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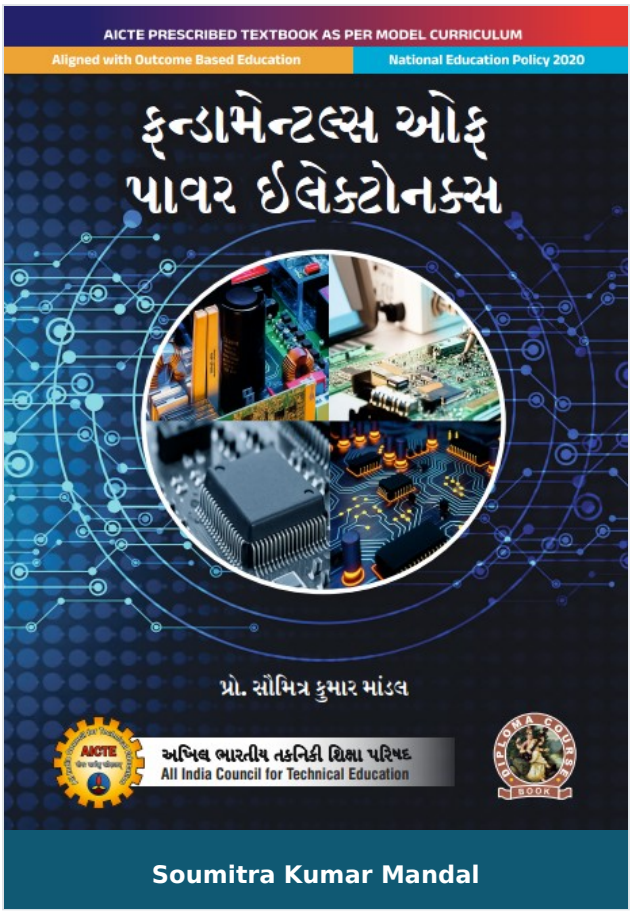
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Coordinator (UG) of Electrical Sciences. During his service at VIT, he was deputed as visiting faculty to KIGALI UNIVERSITY, KIGALI Center Africa. He has been coordinator of M.Tech programme of U.P. Technical University, 2007-08. He has organized several guest lectures, short-term training programmes, FDPs and conferences in the field of microwaves and Antennas. His research areas includes: Waveguides, Microwaves and Microstrip Antennas. He has guided several M.Tech dissertations and 05 Ph.Ds. He has 120 publication in International/ National Journals, Conferences and Symposiums. He is Member of ISTE, SEMCE (I) and IEEE.

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Fundamentals of Power Electronics

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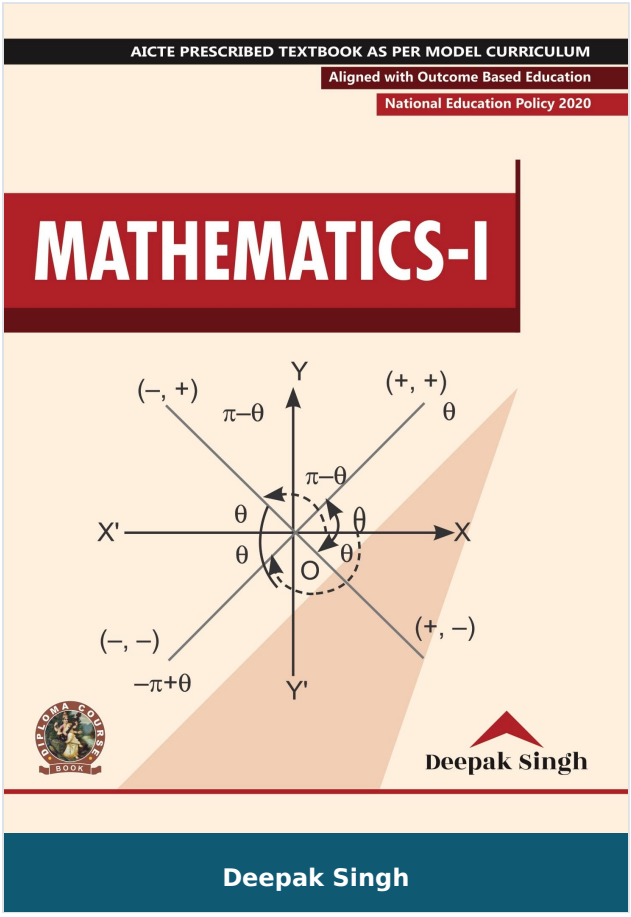
Soumitra Kumar Mandal

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Mathematics I

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Product Description

“Mathematics-I” is included as a paper for the first year Diploma program. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is combined with the concept of outcome-based education.

Book cover five Units Trigonometry, Functions and Limit, Differential Calculus, Complex numbers and partial Fraction, Permutation and Combination and Binomial Theorem. In every unit each topic is written in easy and lucid manner. A set of exercise at the end of each unit is clubbed to test the student’s comprehension.

Some salient features of the book:

· Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

· Book provides lots of real-world applications, interesting facts, QR Code for E-resources, mini projects, curiosity topics, sample specification table etc.

· Students and teacher centric subject materials included in book with balanced and chronological manner.

· Figures, tables and mathematical equations are inserted to improve clarity of the topics.

· Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

· Comprehensive synopsis of formulae for a quick revision of the basic principles.

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- Differential Calculus
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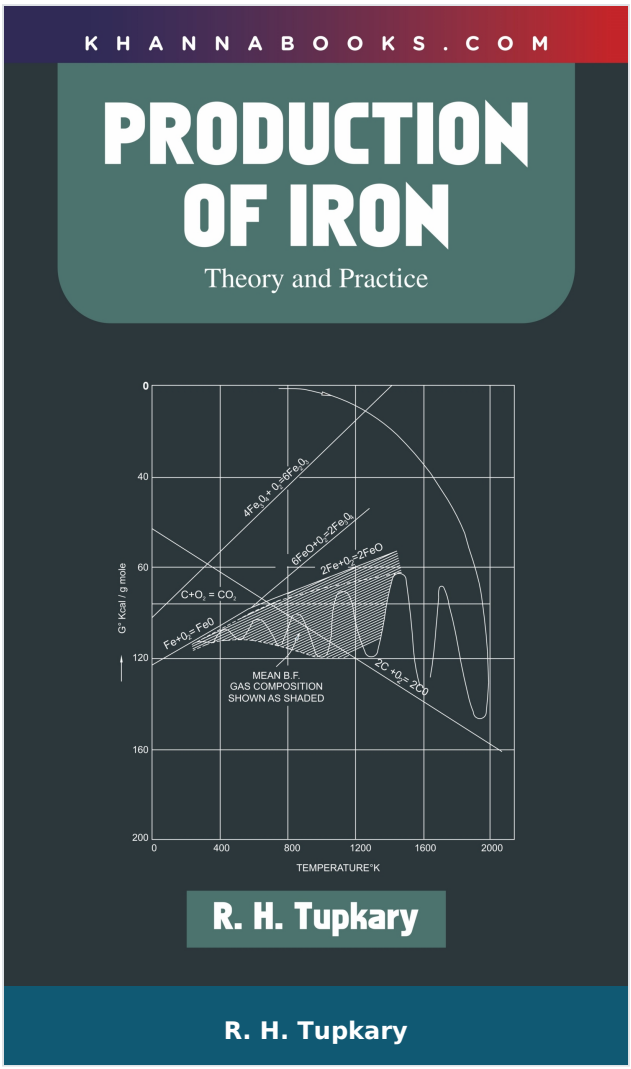
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Production of Iron (Theory and Practice)

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Product Description

Production of iron (Theory and Practice)"A good slag designer is essential for production iron efficiently" "In engineering and technology what can not be measured can not be controlled to improve the quality"

After getting proper training at the university of Melbourne in the field of iron and steel making, in the period 1962-65, and after working as faculty member at Banaras Hindu university , first as lecturer and then as reader, Dr. RH Tupkary moved to visvesvaraya National institute of technology, Nagpur as professor, in 1970. He always wished to write books on iron and steel making but being very busy in RSS activities he could not find time to do that. What prevented him from writing the book, He wrote the book titled “introduction to modern steelmaking” when he was confined in Nagpur central jail during the emergency of 1975-1977. It was the first ever book on steelmaking written in independent India. It was extremely well appreciated then and since then till to date for over 44years now. It was designed to cater to the needs of Indian students of metallurgical engineering and practicing steel makers, in those days. But it was very well received all over the world. The title and therefore the contents were so chosen that it was the introduction to the subject in those days, when steel was made in India more as an art rather than based much on the science and technology. It was because the steelmaking technology was still in its infancy in India at that time. The production was also not much. The steelmakers then worked in steel industry more as operators than scientists.

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- Irregularities.
- Off-gas-Cleaning and Utilization.
- Slag and Metal.
- Efficiency.
- Modern Design And Practice.
- Operation Control.
- Alternative Routes-1 Low Shaft and MBF.
- Alternative Routes-2Electro-Thermal Processes.
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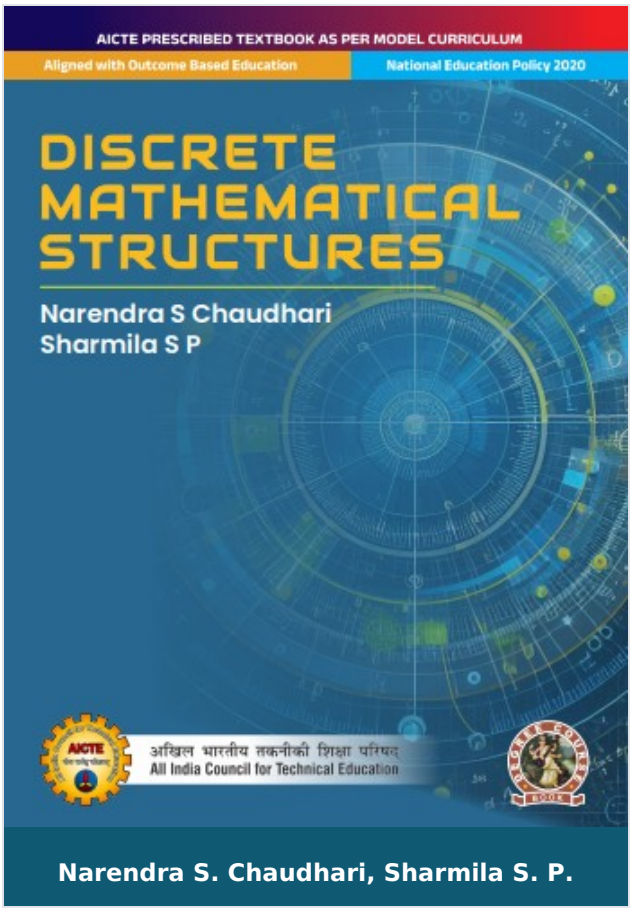
R. H. Tupkary

Dr. R. H. Tupkary graduated in Met. Engg. from Bananas Hindu University in 1959 in first class and was placed at third position in merit list. He completed M.Eng.Sci. and Ph.D. from University of Melbourne in 1963 and 1966 respectively. He worked as a lecturer in Met. Egg. during 1959-62 and Reader during 1966-1970 period in BHU and then joined Visvesvaraya Regional College Engineering, Nagpur as Professor and later became head and voluntarily retired in 1994. Dr. Tupkary is a recipient of Binani Gold Medal of Indian Institute of Metals in 1972 and Distinguished Alumnus Award of BHU in 1988. He has published several technical papers and is more known for his two books, one on Steel Making and the other on Iron Making which are very popular textbooks of the subjects since 1977. Out of these two books, "Steel Making" was written when he was confined in Nagpur Central Jail during the emergency period of 1975-77. During his tenure as professor in VRCE, he was actively associated with Nagpur University, through its various academic and administrative bodies as their elected member. He has also worked as Managing Director of one Marathi daily published from Nagpur during the period 1994-97. He is committed social worker and is associated with varieties of such activities at and around Nagpur.

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