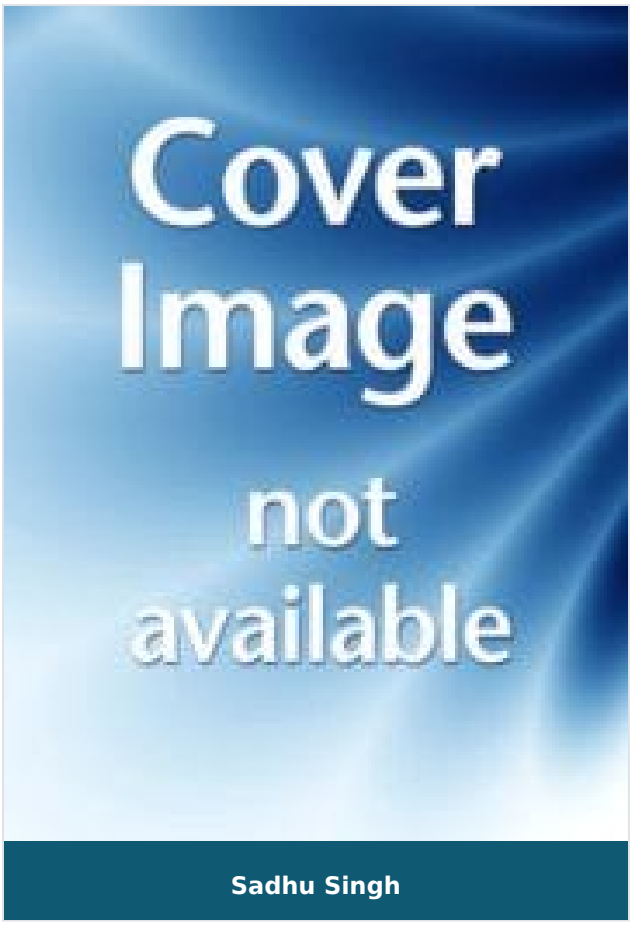


Khanna's Conventional & Objective Type Questions & Answers in Mechanical Engineering

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E-ISBN 13 :	978-93-86173-97-3
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Condition Type :	New
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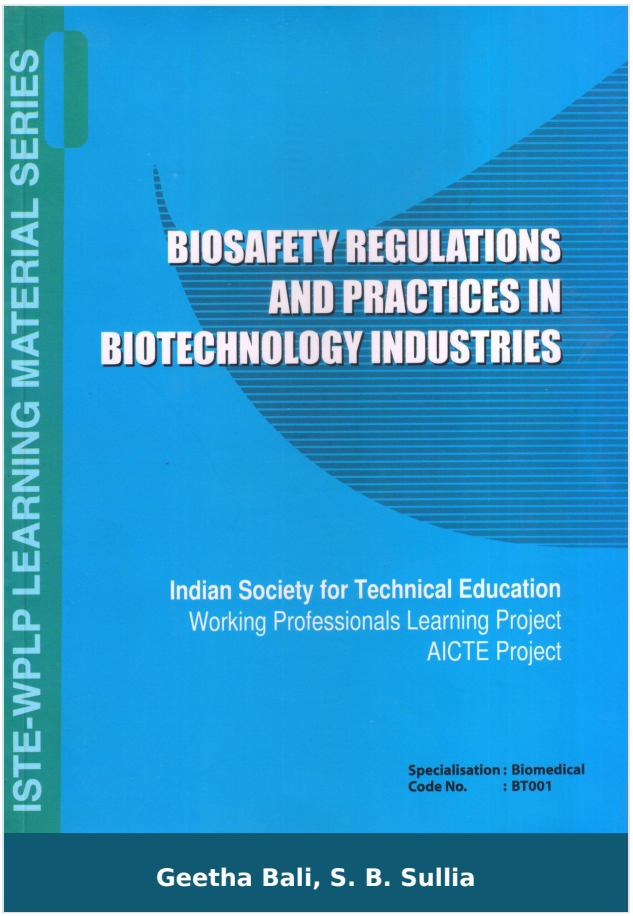
Sadhu Singh

Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and 19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Departmentand Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.

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Biosafety Regulations And Practices In Biotechnology Industries

Author :	Geetha Bali, S. B. Sullia
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E-ISBN 13 :	978-93-55383-58-7
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Year :	2006
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 386.00
Categories :	Bookstore, ISTE Series, Biomedical & Biotechnology
Condition Type :	New
Country Origin :	India

Product Description

Biotechnology is defined as 'The application of biological methods or processes, to produce products useful to mankind'. It often involves making molecular changes in living things for their better utilization. Plant breeders and fermentation experts have for centuries laboured to improve the crops and microorganisms such as yeasts and bacteria, that produce food and medicine. Plant Breeding and Fermentation Technology, in fact, long preceded the scientific knowledge of Genetics. Modern Biotechnology or Genetic Engineering is the technology that makes possible the transfer of genes (DNA) from one organism to another, thus allowing the recipient organism to express traits or characteristics normally associated only with the donor. The new characteristics that the recipients gain, will never easily come to them through natural processes of gene transfer that occur in nature. Thus the scope for Genetic Engineering is far greater than the conventional techniques employed prior to our understanding of DNA.

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Software Project Management

Author :	T. Anitha, Raghi K. R., S. Vignesh
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Product Description

Software Project Management

Software Project Management provides a crucial integration of core management principles with the technical expertise of software engineering. As the complexity of modern software systems grows, effective management practices are more essential than ever.

This book is meticulously designed to equip both students and professionals with the knowledge and practical tools necessary to navigate the challenges of the software development lifecycle. It guides readers through the entire process, encompassing everything from initial project planning and effort estimation to continuous monitoring, risk control, and ensuring software quality.

By mastering the methodologies and techniques presented, you will learn to manage projects that are completed on time, within budget, and to the required standards of quality. The text emphasizes that successful project execution requires a balanced approach, highlighting the vital role of teamwork, leadership, and communication alongside technical expertise. Ultimately, this is the definitive resource for anyone seeking to master the art of delivering high-quality software products.

Salient Features:

- **Project Evaluation and Strategy**: Learn to categorize, evaluate, and align projects with business goals using Project Evaluation, Programme Management, and Cost-Benefit Evaluation Techniques (like ROI and NPV).
- **Estimation Mastery**: Practical coverage of Software Effort Estimation, including the Bottom-up, Top-down approach, and Parametric models such as the industry-standard COCOMO model.

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- **Activity Planning**: Detailed guidance on Activity Planning, Project Schedules, and Network Planning models for sequencing and scheduling tasks.
- **Comprehensive Risk Management**: Explores a systematic framework for dealing with risk, covering Risk Identification, Assessment, Planning, and effective Risks and Counter Measures.
- **Monitoring and Control**: Techniques for creating a monitoring framework, Collecting Data, conducting Reviews, performing Earned Value Analysis, and managing Software Configuration.
- **Software Quality Assurance**: Defines and measures quality using models like ISO 9126, Product and Process Metrics, and introduces Process Capability Models (like CMMI).
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- Activity Planning and Risk Management
- Monitoring and Control
- Software Quality

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T. Anitha Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

Raghi K. R.

Raghi.K.R Subathra.G Nancy Kirupanithi

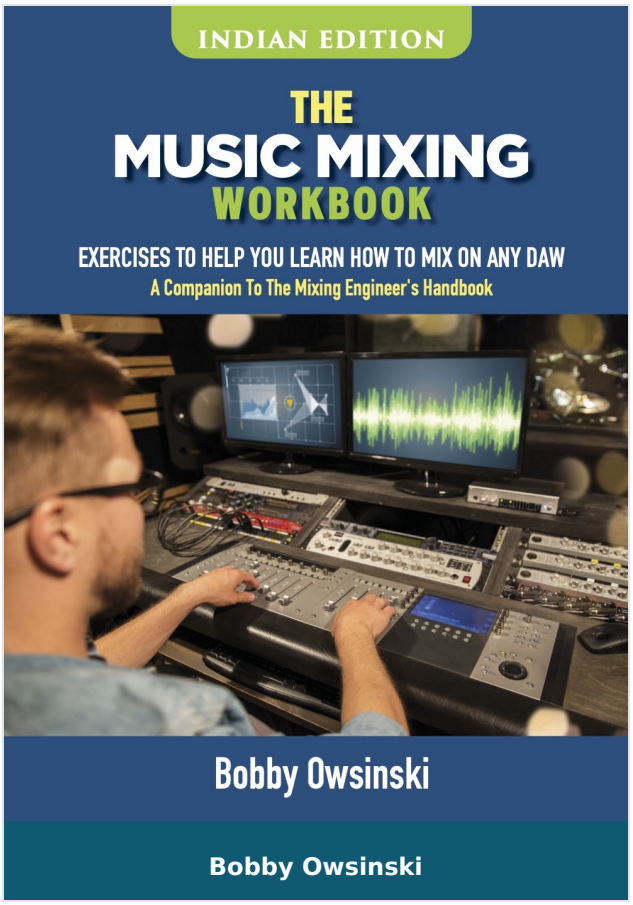
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The Music Mixing Workbook (Indian Edition)

Author :	Bobby Owsinski
ISBN 13 :	978-93-55389-76-3
ISBN 10 :	93-55389-76-0
E-ISBN 13 :	978-93-55389-76-3
Edition :	1
Pages :	260
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Product Description

If you’re new to mixing and aren’t sure what to do, or your mixes aren’t anywhere near where you’d like them to be, then The Music Mixing Workbook is exactly what you need. Written by Bobby Owsinski, the author of the award winning and highly acclaimed Mixing Engineer’s Handbook (the standard reference book for mixing in schools around the world), the Music Mixing Workbook features hands-on exercises that teach you all the things that make a mix sound great, as well as all the things to avoid along the way.

Designed to meet the needs of anyone relatively new to or confused about the once mysterious process of mixing audio, the book features 175 different exercises covering every operation needed to complete a modern sounding professional mix with tips and tricks that come directly from the A-list pro mixers.

The easy-to-grasp exercises can be used with any DAW application or hardware console, and any genre of music.

Topics covered include:

. DAW signal

. Basic monitoring setup

. Balancing mix elements

. Multiple EQ techniques

. Compression, gates, and saturators

. Reverb, delay and modulation effects

. Master mix techniques, and much more

Although the reader can use the Workbook with any current songs they may be working on, most of the exercises are built around professionally recorded tracks that are

available to download for free.

The Music Mixing Workbook is meant to work in conjunction with Bobby’s popular Mixing Engineer’s Handbook to provide practical training behind the many concepts involved with mixing.

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- Creating Interest
- The Master Mix
- Building The Mix in Order
- Glossary

Author

Bobby Owsinski

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Bobby Owsinski is one of the bestselling authors in the music industry with 24 books that are staples in audio recording, music and music business programs in colleges around the world, including the Mixing Engineer’s Handbook, The Music Producer’s Handbook, Music 4.0: A Survival Guide for Making Music in the Internet Age, and more. He’s also a contributor to Forbes covering the new music business, his popular production and music industry blogs are over 8 million visits, and he’s appeared on CNN and ABC News as a music branding and audio expert. Visit BobbyOwsinskiBlog.com, his music industry blog at Music3Point0.com, his podcast at BobbyOInnerCircle.com, and his website at BobbyOwsinski.com.

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Environmental Science

Author :	Subrat Roy
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Pages :	140
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Publisher :	Khanna Publishing House
M.R.P :	Rs 395.00
Categories :	AICTE Prescribed Textbooks, Bengali Books, Bookstore, Ebooks
Condition Type :	New
Country Origin :	India

Product Description

“Environmental Science” is an audit course for the first year Diploma program 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 four units- Ecosystem, Air and Noise Pollution, Renewable Sources of Energy and Solid waste management, ISO 14000 & Environmental Management, Every unit contains as set of exercise at the end of each unit to test the student’s comprehension.

Some salient features of the book:

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 use of ICT, projects, group discussion etc.

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

4. Figures and tables are insert to improve clarity of the topics.

5. Objective questions, Short questions and long answer exercise given for practice of students after every unit.

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- Renewable sources of Energy
- Soil waste Management, ISO 14000& Environmental management.
- Important Day Related to Environment
- CO and Po Attainment Table
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Author

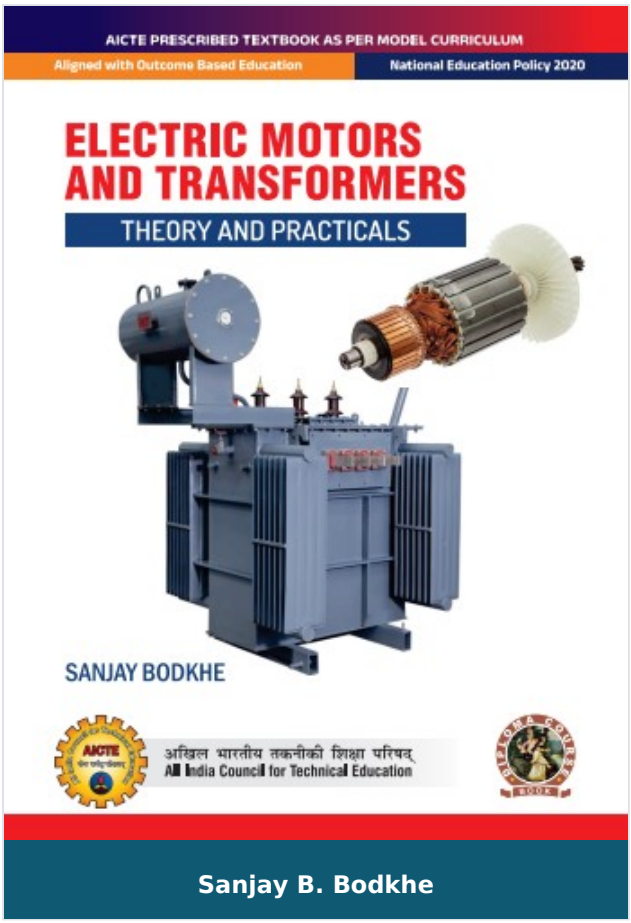
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Electric Motors and Transformers (Theory and Practicals)

Author :	Sanjay B. Bodkhe
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Condition Type :	New
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Product Description

Electric Motors and Transformers (Theory and Practicals)

This book gives detailed information about the dc motors and the transformers that are considered as a workhorse of industry and heart of power system respectively. Although the modern industrial trend is to use ac motors and the electronically switched motors, the dc motors are still considered as a highly reliable and highly controllable alternative. Transformer is a device which finds an unavoidable application not only in transmission and distribution of ac power, but also in electronic and communication circuits. In this book, every concept is explained in the simplest possible way with maximum number innovative diagrams and examples. Wherever possible, photographs of real systems are provided. Laboratory experiments based on the theory are given at the end of every unit. Although this book is written for the students of diploma level program, it will prove to be useful to undergraduate engineering students as well. The content of this book is as per the syllabus of AICTE and is aligned with outcome-based education as per the National Education Policy (NEP)2020.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, illustrations, exercise, experiments. Student centric subject materials included in book with balanced and chronological manner.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.

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- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems are provided in each unit.

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Author

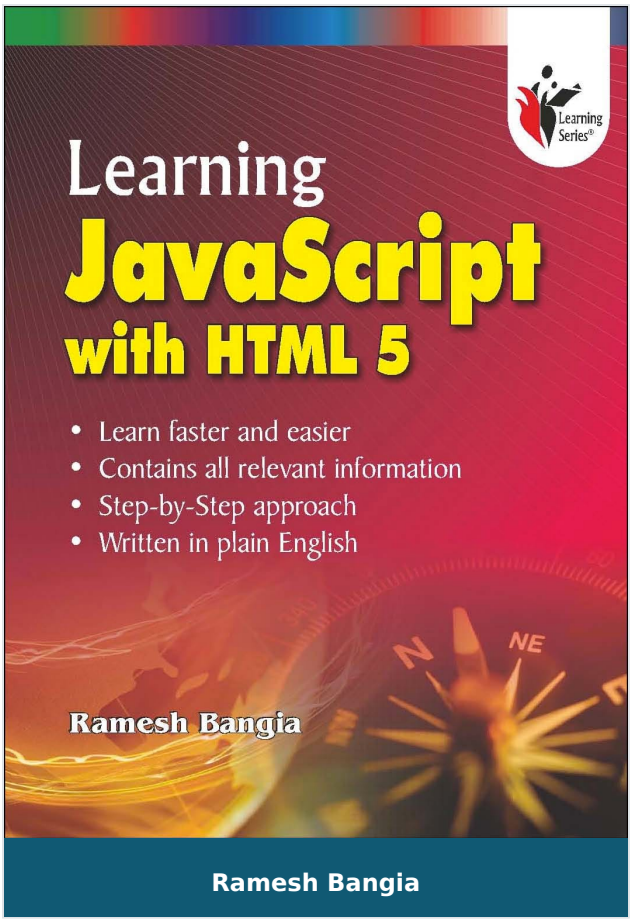
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Dr. Sanjay B. Bodkhe Professor in Electrical Engineering and Registrar, RAMDEOBABA UNIVERSITY

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Learning Javascript with HTML 5

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Publisher :	Khanna Publishing House
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Condition Type :	New
Country Origin :	India

Product Description

The complete Learning Series has been designed in a very systematic and logical manner. Each topic has been developed from the basic concepts. Practically every major point in the text is illustrated with suitable examples and screen shots. This will help the students in understanding the basic theory and train them in solving every problem systematically, and confidently. A large number of unsolved as well as solved exercises have also been included in the book. The language of the text of the book is lucid, direct and easy-to understand. Each chapter is laced with various diagrams wherever possible. Functions has been explained in full and some of them have been explained in the form of examples. Tips for working faster using the keyboard shortcuts are also provided.

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- JavaScript Functions
- JavaScript Objects
- Browser Objects
- Document Objects
- Document Object Model
- Validation, Errors, Debugging, Exception Handling and Security
- JavaScript The Beginning
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Author

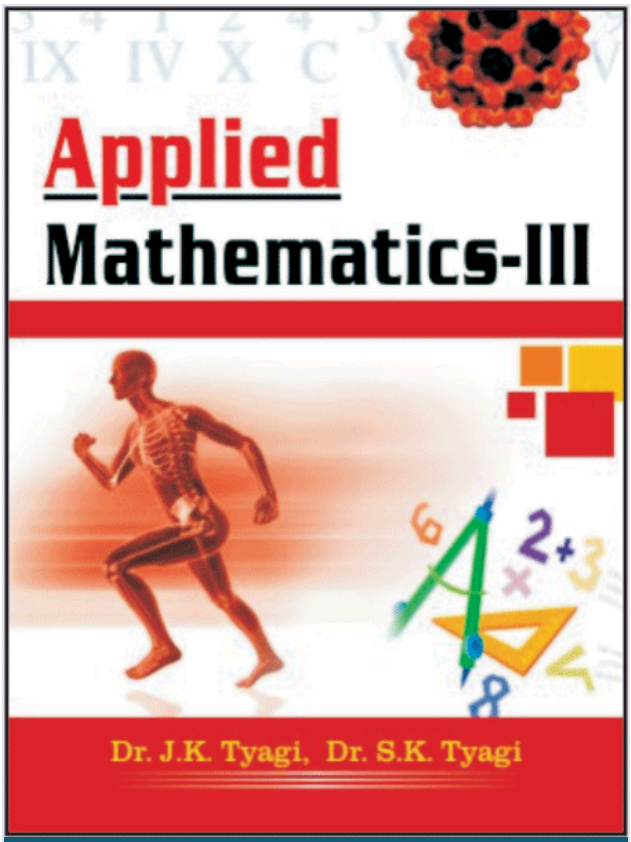
Ramesh Bangia

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.

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J.K. Tyagi, S.K. Tyagi

Applied Mathematics–III

Author :	J.K. Tyagi, S.K. Tyagi
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Product Description

The language is very simple and easily understandable. The approach is to communicate the practical aspects of mathematics in a way that drives out the common fear of learning any mathematical subject. A large number of solved and unsolved problems have been included. Topics are followed by figures and tables. The notations and terminology have been clearly explained wherever desirable. In each chapter, all concepts and definitions have been discussed in details with suitable examples.

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- Laplace Transformation
- Linear Programming

Author

J.K. Tyagi

Dr. J.K. Tyagi is Professor and head department of Applied Science, Maharaja Agarsain Institute of Technology Ghaziabad (U.P.)

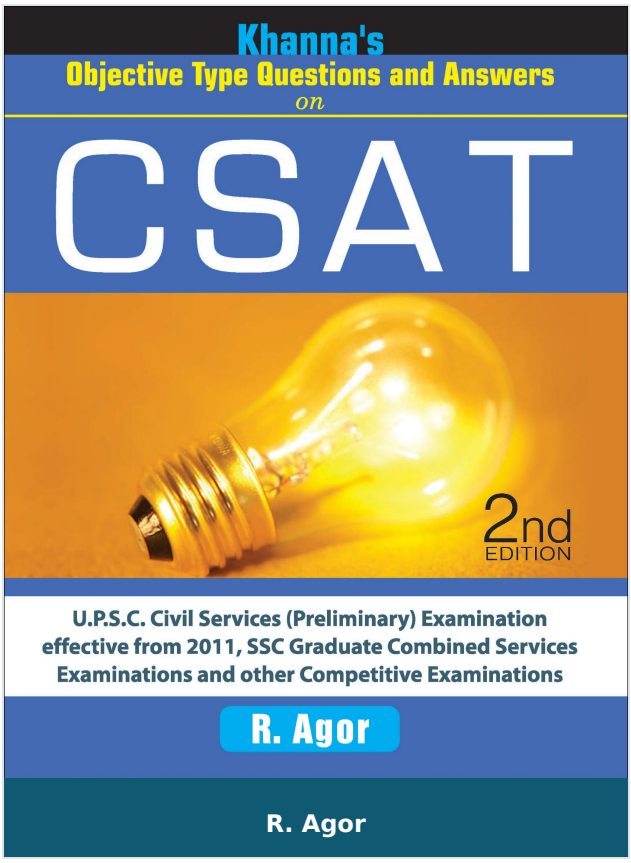
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Khanna's CSAT [Objective Type Ques. & Ans.]

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Product Description

The author feels great pleasure in presenting this comprehensive treatise for the candidates aspiring for Civil Services (preliminary) Examination as per the revised syllabus and pattern effective from 2011 and all other competitive examinations. This has been an endeavor of the author to compile the necessary knowledge for the Examination through the multiple type questions and answers on various subjects and current affairs.

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- The World Oceans and their Configurations
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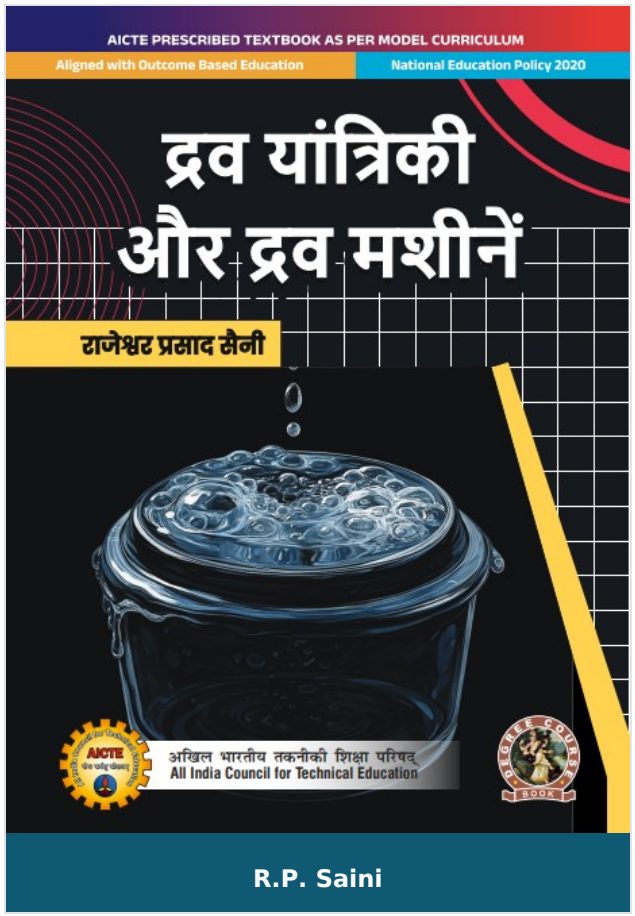
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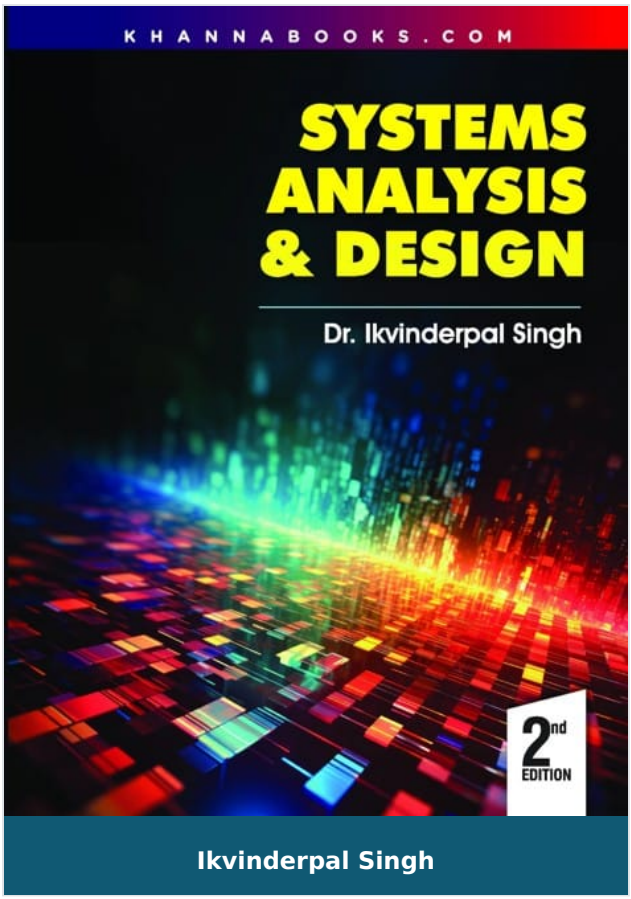
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Ikvinderpal Singh

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous

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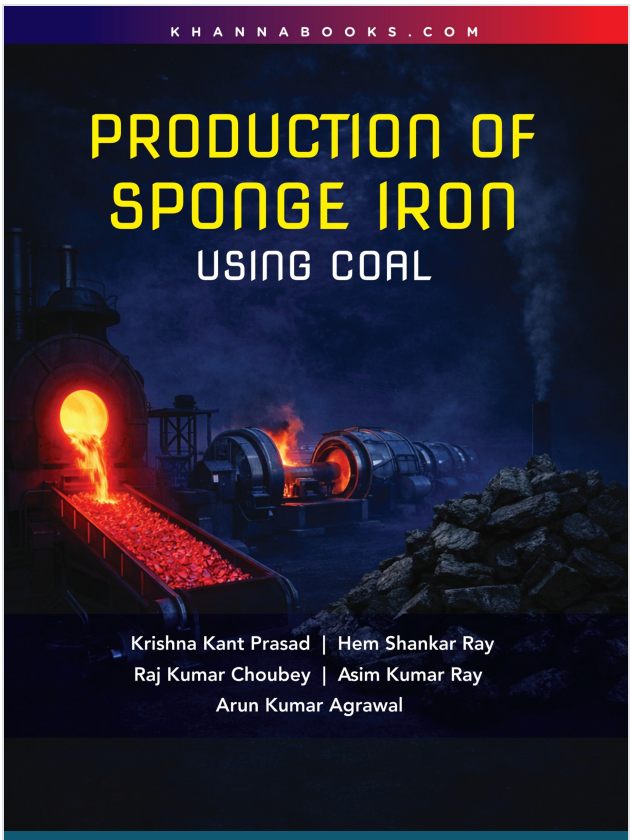
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Krishna Kant Prasad, Hem Shankar Ray, Raj Kumar Choubey, Asim Kumar Ray, Arun Kumar Agarwal

Production of Sponge Iron Using COAL

Author :	Krishna Kant Prasad, Hem Shankar Ray, Raj Kumar Choubey, Asim Kumar Ray, Arun Kumar Agarwal
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Product Description

Production of Sponge Iron Using COAL

Production of Sponge Iron using Coal: Rotary Kiln, Tunnel Kiln and using Gas from Coal is a definitive technical guide that explores India's global leadership in the coal-based direct reduction of iron ore. While international markets often rely on gas-based shaft processes, this book highlights how India has pioneered and perfected the use of rotary kilns to utilize abundant, high-ash non-coking coal-resources often dismissed by foreign experts as "muck". The text provides an exhaustive analysis of the thermodynamic, kinetic, and aerodynamic principles that govern the solid-state reduction of iron oxides.

The book serves as a vital bridge between theoretical research and industrial application, documenting decades of expertise from leading metallurgists. It broadens the traditional focus on rotary kilns to include emerging commercial successes in tunnel kiln technology and coal gasification-based shaft furnaces. Beyond technical specifications, the authors connect modern engineering with India's ancient metallurgical heritage, such as the storied Iron Pillar of Delhi. This work is an essential resource for metallurgical students, researchers, industry professionals, and entrepreneurs seeking to understand the economic and technical nuances of sustainable ironmaking in coal-rich regions.

Salient Features

- Rotary Kiln Dominance: Detailed analysis of the rotary kiln's primary role in India, covering its versatility in processing lump hematite and its unique operational strengths and weaknesses.
- Scientific Process Modeling: Comprehensive chapters on mathematical modeling, CFD analysis, and reaction kinetics that allow for precise control over heat transfer and solid movement.

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- Alternative Reduction Technologies: In-depth exploration of tunnel kilns as a viable solution for reducing magnetite and iron ore fines, filling a critical gap in traditional kiln operations.
- Coal Gasification Insights: Evaluation of the economic and technical feasibility of converting coal into reducing gas (CO and H) to supplement production in shaft furnaces.
- Resource Optimization: Strategies for utilizing high-ash Indian coal and recirculating char to enhance energy efficiency and reduce the environmental footprint of ironmaking.
- Practical Engineering Focus: Guidance on plant design, refractory management, and overcoming common industrial hurdles like accretion or "ring formation" inside kilns.
- Historical Contextualization: A unique addendum on India's ancient ironmaking legacy, offering a perspective on the longevity and evolution of sponge iron technology.
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- Addendum

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Krishna Kant Prasad

Dr. Krishna Kant Prasad (born on 24th January 1945 in Bhagalpur, Bihar), after completing B.Sc. Hons. (Chem.) from Bhagalpur University, he did his B.E., M.E. and Ph.D. in Metallurgical Engineering from the Indian Institute of Science, Bangalore. After brief teaching stints at the Banaras Hindu University and MR Engineering College, Jaipur he joined R&D Division of Tata Steel, Jamshedpur in 1972. He moved to RDCIS, SAIL, Ranchi in 1981 as in-charge of R&D activities in the Sponge Iron Pilot Plant Complex and since then he was actively involved in steering R&D activities both in Sponge Iron Making and Alternate Iron Making areas. He retired from SAIL, in January 2006. Thereafter, he served as a visiting professor in the Department of Metallurgical Engineering in IT (now IIT), BHU, Varanasi, for two and then joined NITK (National Institute of Technology Karnataka) in Surathkal, initially as the Ministry of Steel Chair Professor, and then in various capacities - all equivalent to a visiting professor - for seven and a half years. Dr. Prasad has guided four Ph.D. students. He has to his credit over 130 research papers, five registered copyrights and holds two patents on sponge iron making. He has authored four books entitled Sponge Iron Making in Rotary Kiln, Chemical and Metallurgical Thermodynamics, Advances in Rotary Kiln Sponge Iron Plant and Integrated Iron- and Steelmaking. He has also edited two books - "Trends in Beneficiation and Agglomeration of Iron Ore' and 'Steel Plant Technologies: An Overview. He is life member of the Indian Institute of Metals, Electrochemical Society of India and the Computer Society of India. E-mail: kkpmprnc@gmail.com. Professor

Hem Shankar Ray

Hem Shankar Ray (born on 19th June 1940, Jabalpur, Madhya Pradesh) unfortunately left for his heavenly abode on 28th April 2023 just as the preparation of the manuscript

started. Prof. H. S. Ray is widely regarded as one of the greatest minds of the Indian scientific community and a very well-known name in the field of Extractive Metallurgy. He obtained his B.Tech. (Hons.) in Metallurgical Engineering from the Indian Institute of Technology, Kharagpur (1962) and M.A.Sc. and Ph.D. degrees from the University of Toronto, Canada (1963, 67). He was with I.I.T. Kanpur from 1967-80 as Lecturer and Asst. Professor. In between he served as Manager/Senior Technologist - Research and Development, Pilkington Research Centre, Lathom, England (1977-1979). He then served as Professor of Metallurgical Engineering (1980-1990) and Dean of Students Affairs (1988-90) at the Indian Institute of Technology, Kharagpur. Prof. Ray served the Regional Research Laboratory, Bhubaneswar (now IMMTD) as Director from 1990-2000 (two terms). On retirement he served as an Emeritus Scientist at the Central Glass and Ceramic Research Institute, Calcutta. He holds several patents including 2 U.S. patents to his credit. His areas of interest included thermal analysis, kinetics, extractive metallurgy, energy and R&D administration. He guided about 40 Ph.D. students and 20 M.Tech. students for their thesis work. He has published about 500 papers in reviewed journals and conference proceedings and over 26 books. He also edited 15 Conference proceedings and written about 50 technical reports. He also wrote numerous other non-technical articles, editorials, etc. Prof. Ray received several awards in recognition of his work and these include the National Metallurgists Day Award, G.D. Birla Award and two Kamani Gold Medals of the Indian Institute of Metals. He received the Distinguished Alumni award from IIT Kharagpur, which, interestingly, he shared that year with the Google CEO, Sundar Pichai. He served several companies and R&D laboratories as consultant or member of Boards/Research Councils. He was associated with several Professional Bodies and served as President, Indian Institute of Mineral Engineers and Indian Thermal Analysis Society; also, as a Vice President of the Millennium Institute of Energy and Environment Management and was an Editor of a popular science magazine Everyman's Science. He also served in several other institutions in various capacities. He was deeply involved with professional bodies such as IIM (Indian Institute of Metals),

MIEEM (Millennium Institute of Energy and Environmental Management), IAPQR (Indian Association for Productivity, Quality and Reliability) etc. and used to be regular and most 0sought-after speaker in their seminars/workshops. Apart from his stellar achievements in the world of academics, Prof Ray was well known for his interests and capabilities in other spheres of life such as Music and Art. His creative abilities spanned far and wide across writing books of both scientific and nonscientific nature, proficiency in several musical instruments like Guitar, Tabla, Violin and Esraj and painting in both oil and water colour. His office workspace at his home housed an eclectic mix of all forms of Arts. His most unusual interest was in Magic. He had a keen interest in the subject and built several magic tricks himself. He also performed in public as a professional magician. Prof Ray was a great friend to all his colleagues and students. His abilities to build positivity in all his circles made him stand out as an exceptional human being. His associations with people were lifelong. He held deep respect for all his relationships and loved nurturing the young and rising. From writing science fiction books for teenagers to help inculcate interest in core science in school to mentoring startups in science and tech and to helping and problem solving institutions to break through status quo to push forward, Prof Ray had pretty much done it all. He remained a self-driven human being with natural leaderships skills combined with motivating and inspiring others to rise, right till the end. Sri

Raj Kumar Choubey

Raj Kumar Choubey , was born on August 11, 1954 at Sikariya, Bhojpur, Bihar (unfortunately he passed away on February 19, 2024). He passed B.Sc. from the University of Burdwan in 1974 and Bachelor of Engineering from MREC (now MNIT) in Jaipur Rajasthan in the year 1980. He joined M/s Jaipur Metals and Electricals in 1980 and operated the first induction furnace of India. In 1982 he joined M/s Hindustan Motors and served till the year 2000. There he developed various grades of automobile grade steel and was a part of the team who fabricated the first Diesel Engine for automobiles in India. Thereafter he decided to be a start-up entrepreneur. His portfolio lately read: Owner -

Metcon Power Consultant & Engineers, Kolkata, having global clients base including Tata Steel and Jindal Steel. Director - Bhagwati Power & Steel Limited, Raipur, CG. Director - RNT Medicare Private Limited, Kolkata. Partner - Premier Hygienic Services, Kolkata. He involved himself in innovation and setting up commercial plants based on self developed technology for: Manufacturing DRI (Sponge Iron) from Mill Scale, DRI through Tunnel Kiln Technology, Development of Metallic Saggers for reduction of Iron Ore, Process for reduction of Chromite Ore at lower temperature, Extraction of liquid fuel from waste plastic, Recycling of Steel Plant wastes Development of Binders for agglomeration Address: Metcon House, North Bazar, Post: Andal - 713321, District: Paschim Bardhman, West Bengal. Email: choubey@metconpower.in, Website: www.metconpower.in. Dr.

Asim Kumar Ray

Dr. Asim Kumar Ray was born at Calcutta in 1952. He graduated with Honours in Chemical Engineering from Jadavpur University in 1974. He did his Masters in Chemical Engineering from IIT Kanpur and Ph. D. in Metallurgical Engineering from IIT Kharagpur. After a brief stay of about one and a half year each at Indian Iron and Steel Company, Burnpur and Indian Oil Corporation, he joined Research & Development Centre for Iron & Steel (RDCIS), SAIL, Ranchi in 1978. After a long stay at RDCIS, SAIL, Ranchi, he assumed charge of General Manager (Quality) at Durgapur Steel Plant (DSP), SAIL in 2008. Dr Ray was instrumental in commissioning Sponge Iron Pilot Plant and associated Process Research Laboratory and carried out R & D activities related to Sponge Iron & other Alternate Iron Making processes, Steelmaking and Continuous Casting. He established Computational Laboratory at RDCIS and carried out mathematical and physical simulation of different metallurgical processes. He steered several projects on process improvement and product development in all SAIL plants. Under his leadership, DSP had received several awards on Quality including prestigious Golden Peacock Award on Quality -2010 of Institution of Directors (IOD). Dr. Ray retired from SAIL in December 2012. Presently, Dr. Ray is with M/s Lechler (India) Pvt. Ltd. Dr. Ray has co-authored the Book on "Rotary

Kiln Sponge Ironmaking". He has to his credit about 140 research publications and three patents. Shri Arun Kumar Agrawal , born in 1963, is a 1985 metallurgical engineering graduate from the then Institute of Technology, Banaras Hindu University (IT-BHU - now IIT-BHU), Varanasi. He joined MECON Limited, Ranchi in the year 1986 as Management Trainee (Technical) after one year stint in Hindustan Aluminium Co. (Hindalco - Aditya Birla Group) at Renukoot in Uttar Pradesh. He joined the Iron Making Division of MECON and was deeply involved in the basic engineering and design, detailed engineering, consultancy and project management as well as site services of various Iron Making Projects particularly DR (Direct reduction) projects - both coal and gas based. In Blast Furnace area, he was the co-ordinator for NMDC Blast Furnace in Nagarnar and 1.2 mtpa Blast Furnace Complex of M/s PTKS, Indonesia. He was involved in engineering of a number of coal and gas-based DR projects, most prominent being world's first syngas-based DR plant in Angul for JSPL. He possesses over 37 years of varied and rich experiences in Iron and Steel technology, conceptualisation of projects along the entire value chain and development of process flow sheets, making and guiding the preparation of multitudes of reports, etc. Besides he has rendered expert services to Ministry of Steel (MOS) by being part of several committees, policy and norms formulation and their subsequent regulation as well as handling of diverse technical queries. In the process he immensely contributed to the development and growth of Indian Steel Industry. Shri Agrawal was deeply involved in all business verticals of MECON Limited, both technical & commercial. During his illustrious career, he displayed rare strategic insight and business acumen for enhancing company's business prospects. Shri Agrawal rose to the level of Director (Technical) of MECON in June, 2020 and continued for three years before superannuation in 2023. Under his leadership, a new Design Cell was created to develop specific tailor-made innovative designs and engineering solutions for new application and import substitutions. He was instrumental in launching of company's in-house prestigious quarterly technical journal "Techquest" to provide platform for sharing technical knowledge as well as unique design, engineering & project experiences and site based

solutions among the engineers to help them learn from each other's experience and make constant improvement in their subsequent endeavours.

Arun Kumar Agarwal

Dr. Krishna Kant Prasad (born on 24th January 1945 in Bhagalpur, Bihar), after completing B.Sc. Hons. (Chem.) from Bhagalpur University, he did his B.E., M.E. and Ph.D. in Metallurgical Engineering from the Indian Institute of Science, Bangalore. After brief teaching stints at the Banaras Hindu University and MR Engineering College, Jaipur he joined R&D Division of Tata Steel, Jamshedpur in 1972. He moved to RDCIS, SAIL, Ranchi in 1981 as in-charge of R&D activities in the Sponge Iron Pilot Plant Complex and since then he was actively involved in steering R&D activities both in Sponge Iron Making and Alternate Iron Making areas. He retired from SAIL, in January 2006. Thereafter, he served as a visiting professor in the Department of Metallurgical Engineering in IT (now IIT), BHU, Varanasi, for two and then joined NITK (National Institute of Technology Karnataka) in Surathkal, initially as the Ministry of Steel Chair Professor, and then in various capacities - all equivalent to a visiting professor - for seven and a half years. Dr. Prasad has guided four Ph.D. students. He has to his credit over 130 research papers, five registered copyrights and holds two patents on sponge iron making. He has authored four books entitled Sponge Iron Making in Rotary Kiln, Chemical and Metallurgical Thermodynamics, Advances in Rotary Kiln Sponge Iron Plant and Integrated Iron- and Steelmaking. He has also edited two books - "Trends in Beneficiation and Agglomeration of Iron Ore' and 'Steel Plant Technologies: An Overview. He is life member of the Indian Institute of Metals, Electrochemical Society of India and the Computer Society of India. E-mail: kkpmprnc@gmail.com. Professor Hem Shankar Ray (born on 19th June 1940, Jabalpur, Madhya Pradesh) unfortunately left for his heavenly abode on 28th April 2023 just as the preparation of the manuscript started. Prof. H. S. Ray is widely regarded as one of the greatest minds of the Indian scientific community and a very well-known name in the field of Extractive Metallurgy. He obtained his B.Tech. (Hons.) in Metallurgical Engineering

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the world of academics, Prof Ray was well known for his interests and capabilities in other spheres of life such as Music and Art. His creative abilities spanned far and wide across writing books of both scientific and nonscientific nature, proficiency in several musical instruments like Guitar, Tabla, Violin and Esraj and painting in both oil and water colour. His office workspace at his home housed an eclectic mix of all forms of Arts. His most unusual interest was in Magic. He had a keen interest in the subject and built several magic tricks himself. He also performed in public as a professional magician. Prof Ray was a great friend to all his colleagues and students. His abilities to build positivity in all his circles made him stand out as an exceptional human being. His associations with people were lifelong. He held deep respect for all his relationships and loved nurturing the young and rising. From writing science fiction books for teenagers to help inculcate interest in core science in school to mentoring startups in science and tech and to helping and problem solving institutions to break through status quo to push forward, Prof Ray had pretty much done it all. He remained a self-driven human being with natural leaderships skills combined with motivating and inspiring others to rise, right till the end. Sri Raj Kumar Choubey , was born on August 11, 1954 at Sikariya, Bhojpur, Bihar (unfortunately he passed away on February 19, 2024). He passed B.Sc. from the University of Burdwan in 1974 and Bachelor of Engineering from MREC (now MNIT) in Jaipur Rajasthan in the year 1980. He joined M/s Jaipur Metals and Electricals in 1980 and operated the first induction furnace of India. In 1982 he joined M/s Hindustan Motors and served till the year 2000. There he developed various grades of automobile grade steel and was a part of the team who fabricated the first Diesel Engine for automobiles in India. Thereafter he decided to be a start-up entrepreneur. His portfolio lately read: Owner - Metcon Power Consultant & Engineers, Kolkata, having global clients base including Tata Steel and Jindal Steel. Director - Bhagwati Power & Steel Limited, Raipur, CG. Director - RNT Medicare Private Limited, Kolkata. Partner - Premier Hygienic Services, Kolkata. He involved himself in innovation and setting up commercial plants based on self developed technology for: Manufacturing DRI (Sponge Iron) from Mill Scale, DRI through Tunnel Kiln Technology,

Development of Metallic Saggers for reduction of Iron Ore, Process for reduction of Chromite Ore at lower temperature, Extraction of liquid fuel from waste plastic, Recycling of Steel Plant wastes Development of Binders for agglomeration Address: Metcon House, North Bazar, Post: Andal - 713321, District: Paschim Bardhman, West Bengal. Email: choubey@metconpower.in, Website: www.metconpower.in. Dr. Asim Kumar Ray was born at Calcutta in 1952. He graduated with Honours in Chemical Engineering from Jadavpur University in 1974. He did his Masters in Chemical Engineering from IIT Kanpur and Ph. D. in Metallurgical Engineering from IIT Kharagpur. After a brief stay of about one and a half year each at Indian Iron and Steel Company, Burnpur and Indian Oil Corporation, he joined Research & Development Centre for Iron & Steel (RDCIS), SAIL, Ranchi in 1978. After a long stay at RDCIS, SAIL, Ranchi, he assumed charge of General Manager (Quality) at Durgapur Steel Plant (DSP), SAIL in 2008. Dr Ray was instrumental in commissioning Sponge Iron Pilot Plant and associated Process Research Laboratory and carried out R & D activities related to Sponge Iron & other Alternate Iron Making processes, Steelmaking and Continuous Casting. He established Computational Laboratory at RDCIS and carried out mathematical and physical simulation of different metallurgical processes. He steered several projects on process improvement and product development in all SAIL plants. Under his leadership, DSP had received several awards on Quality including prestigious Golden Peacock Award on Quality -2010 of Institution of Directors (IOD). Dr. Ray retired from SAIL in December 2012. Presently, Dr. Ray is with M/s Lechler (India) Pvt. Ltd. Dr. Ray has co-authored the Book on "Rotary Kiln Sponge Ironmaking". He has to his credit about 140 research publications and three patents. Shri Arun Kumar Agrawal , born in 1963, is a 1985 metallurgical engineering graduate from the then Institute of Technology, Banaras Hindu University (IT-BHU - now IIT-BHU), Varanasi. He joined MECON Limited, Ranchi in the year 1986 as Management Trainee (Technical) after one year stint in Hindustan Aluminium Co. (Hindalco - Aditya Birla Group) at Renukoot in Uttar Pradesh. He joined the Iron Making Division of MECON and was deeply involved in the basic engineering and design, detailed engineering, consultancy and project management as

well as site services of various Iron Making Projects particularly DR (Direct reduction) projects - both coal and gas based. In Blast Furnace area, he was the co-ordinator for NMDC Blast Furnace in Nagarnar and 1.2 mtpa Blast Furnace Complex of M/s PTKS, Indonesia. He was involved in engineering of a number of coal and gas-based DR projects, most prominent being world's first syngas-based DR plant in Angul for JSPL. He possesses over 37 years of varied and rich experiences in Iron and Steel technology, conceptualisation of projects along the entire value chain and development of process flow sheets, making and guiding the preparation of multitudes of reports, etc. Besides he has rendered expert services to Ministry of Steel (MOS) by being part of several committees, policy and norms formulation and their subsequent regulation as well as handling of diverse technical queries. In the process he immensely contributed to the development and growth of Indian Steel Industry. Shri Agrawal was deeply involved in all business verticals of MECON Limited, both technical & commercial. During his illustrious career, he displayed rare strategic insight and business acumen for enhancing company's business prospects. Shri Agrawal rose to the level of Director (Technical) of MECON in June, 2020 and continued for three years before superannuation in 2023. Under his leadership, a new Design Cell was created to develop specific tailor-made innovative designs and engineering solutions for new application and import substitutions. He was instrumental in launching of company's in-house prestigious quarterly technical journal "Techquest" to provide platform for sharing technical knowledge as well as unique design, engineering & project experiences and site based solutions among the engineers to help them learn from each other's experience and make constant improvement in their subsequent endeavours.

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