

## Responsible AI in Practice (Ethics, Regulation and Global Norms)

<b>Author :</b>	A. B. Bhattacharya
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## Product Description

**Responsible AI in Practice (Ethics, Regulation and Global Norms)** Responsible AI in Practice: Ethics, Regulation and Global Norms serves as a vital compass for navigating the complex intersection of cutting-edge technology and human values. In an era where Artificial Intelligence has moved from science fiction to a pervasive social force, this book addresses the urgent question of how to ensure AI serves humanity rather than undermining it. It transcends abstract academic debate by bridging the gap between philosophical reflection and real-world implementation, offering a practical guide to transforming high-level ethical principles into actionable product designs and regulatory enforcement. The text meticulously explores the evolving tapestry of global AI governance, from the European Union's AI Act to UNESCO's global guidelines, providing a multidimensional view of how different nations are crafting a shared ethical language for machines. Designed for a broad audience, it speaks directly to policymakers drafting laws, engineers embedding ethics into code, researchers probing machine learning boundaries, and engaged citizens seeking to understand the societal mirror that AI represents. By weaving together case studies, ethical checklists, and comparative legal insights, the book empowers readers to act as responsible custodians of transformative technology. **Salient Features:** -

- **Practical Frameworks for Ethical Design:** The book moves beyond theory to provide a "roadmap" for embedding fairness and accountability directly into AI architecture. It offers technical toolkits for mitigating bias and solving the "Black Box" problem through Explainable AI (XAI), ensuring systems are both transparent and trustworthy.
- **Global Regulation and Human Rights:** It provides a comprehensive analysis of the international regulatory landscape, including the EU AI Act and UNESCO guidelines. This focus extends to protecting fundamental human rights against risks like mass surveillance, profiling, and the unethical use of autonomous systems.
- **Sustainable and Future-Ready Innovation:** The text prepares readers for emerging shifts-such as Generative AI and deepfakes-while advocating for "Green AI." This vision balances technological advancement with ecological sustainability and the promotion of equitable economic opportunities worldwide.



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### Appendices

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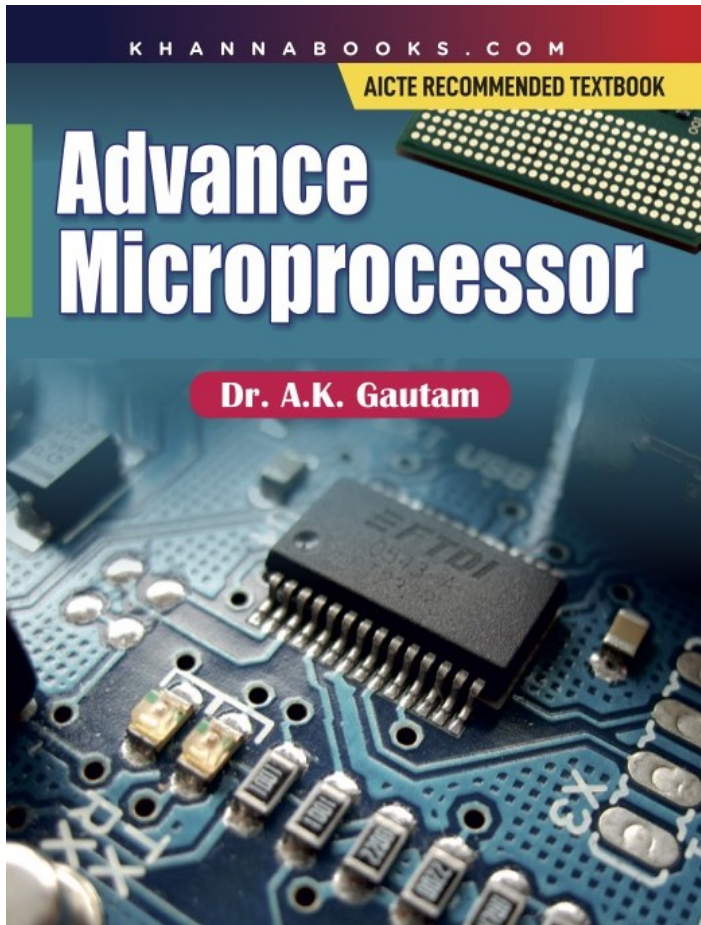
## Author

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**Prof. A. B. Bhattacharya**, Pro-Vice-Chancellor of JIS University, did his M. Sc. and Ph. D. degree in Physics from the University of Calcutta. He did his Post-doc from the Massachusetts Institute of Technology, USA and subsequently joined in the Department of Physics, Kalyani University. He has published 256 Research papers in high-impact Journals and over 150 proceeding papers in conferences. He has successfully guided 24 scholars for their Ph.D. and has written a large number of invited articles in many Journals. He is the author of 29 textbooks written for engineering and science students and also for general readers from many reputed publishers like Infinity Science Press, Taylor & Francis, etc. International Institute of Success Awareness honored him with their most coveted Institutional and globally reputed “Glory of India Gold Medal” for remarkable contributions to India’s national prestige. He is a Life Fellow of the Institution of Electronics and Telecommunication Engineers.

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## Advance Microprocessor

<b>Author :</b>	A.K. Gautam
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### Product Description

Each topic is well explained by illustration and photographs. The book covers basic microprocessors to advanced processors in a consistent progression from theoretical concept to design considerations. The operation of various microprocessors is described with the help of pin diagram, functional diagram and timing diagrams. A large number of working programs, problem, and the each chapter are summarized in the end.



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**Chapter 1:** Introduction To Microprocessors. **Chapter 2:** The 8085 Microprocessor. **Chapter 3:** Architecture And Addressing Modes of The 16 bit 8086 Microprocessor. **Chapter 4:** The 8086/8088 Microprocessor CPU Module Design. **Chapter 5:** Assembly Language Programming. **Chapter 6:** Data Movement Instructions. **Chapter 7:** Arithmetic And Logic Instructions. **Chapter 8:** Program Control And Processor Control Instructions. **Chapter 9:** The 8087 Arithmetic Coprocessor. **Chapter 10:** Support Peripheral Devices. **Chapter 11:** 8086 Interrupt Structure Memory Interfacing And Modules. **Chapter 12:** The 8051 Micro Controller. **Chapter 13:** D/A and A/D Converters.

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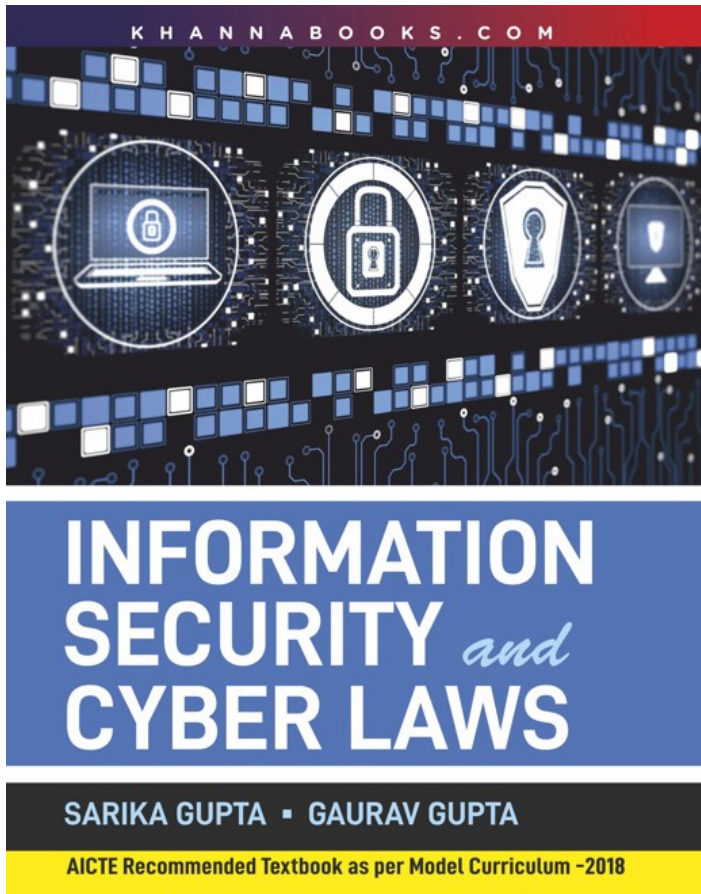
## Author

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**A.K. Gautam** Dr. A.K. Gautam received Ph. D. degree in Electronic Engineering from Indian institute of Technology. Banaras Hindu University, Varanasi, India, in 2007. prof. Gautam is a senior faculty member in the Department of Electronics & Communication Engineering. G.B. Pant Engineering College, Pauri Garwal, India. Dr. Gautam is an active member many academic committees of different Institute and Universities of repute. he is a member of IEEE (USA).

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## Information Security and Cyber Laws

<b>Author :</b>	Gaurav Gupta
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### Product Description

Introduction of Information Security and security and cyber law covers the fundamentals aspect of system, Information system, Distributed Information system, Cryptography, Network Security etc. It is Incredibly robust, portable & adaptable. This book coverage of Model paper, Question Bank and Examination Question Paper etc.



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**Chapter 1:** What is Information ? **Chapter 2:** What is Security ? **Chapter 3:** What is E-commerce ? **Chapter 4:** Physical Security. **Chapter 5:** Cryptography. **Chapter 6:** Network Security. **Chapter 7:** Security Metrics. **Chapter 8:** Ethical Issues.

**Question Bank**

**Model papers**

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## Authors

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**Gaurav Gupta** Gaurav Gupta is currently working as Manager Client Services in an IT MNC. He has more than Nine years of corporate experience with different MNCs. He has published Research Papers in various international Journals and attended conferences at several states. His area of interest includes Server and Databases, Data Center technologies and IT infrastructure, Project Management, Marketing Automation and different enterprise software's, CRM, ERP etc. **Sarika Gupta** Sarika Gupta is currently working as Assistant Professor in the Department of Computer Science and Engineering at Dronacharya College of Engineering, Greater Noida. She has more than six years of teaching and corporate experience. She has already published Research Papers in various international Journals and conferences of repute. Her area of interest and research includes Ad hoc Network, Java, Object Oriented System and Soft Computing etc.

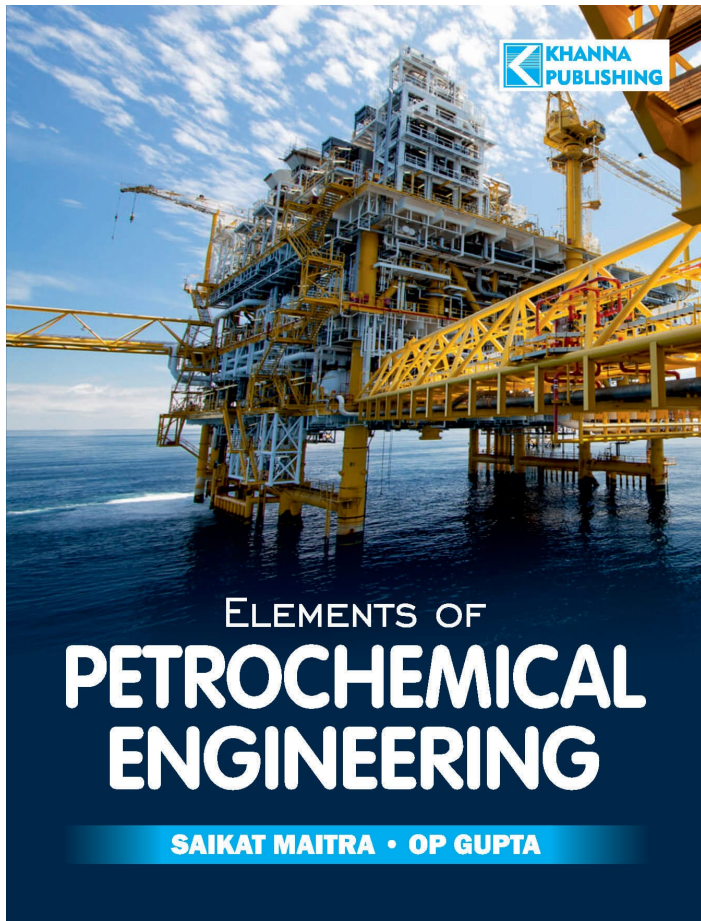
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## Elements of Petrochemical Engineering

<b>Author :</b>	O.P. Gupta
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### Product Description

Elements of Petrochemical Engineering book is meant for the students, teachers and practicing Engineers. This book contains the manufacture, properties and applications of important petrochemicals. Important information's about feedstocks and applications of petrochemical derived products, status of Indian Petrochemical Industry and environment standards for the petrochemical plant are given in the appendices. It also contains short questions and answers and multiple choice questions and answers drawn from examination papers of various engineering colleges for the benefits of the students. The book is targeted to benefit the following : Diploma in Engineering Students, Degree in Engineering Students, AMIE AMIIM, AMIICHE students, Faculty members and teaching staff, Practicing Engineers/Professionals. Latest and updated information/ data/statistics pertaining to the subject matter has been included in the edition for the benefit of the readers.



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## Authors

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**Om Prakash Gupta** is basically being a chemical engineer, he has a practicing experience of efficient Energy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T Kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited England and France on a study tour sponsored by United Nations Development Program (UNDP) to study the scope of energy conservation in steel plants in 1987. **Prof. Saikat Maitra** is presently working as the Vice Chancellor of Maulana Abul Kalam Azad University of Technology, West Bengal (formerly West Bengal University of Technology). He did his B.Sc. (Honors in Chemistry) from the Presidency Colleges, Kolkata, B. Tech, M. Tech and Ph. D in Chemical Technology from the University of Calcutta. He is a Chartered Chemical Engineer and Fellow of Institute of Engineers (India). Prof. Maitra earlier worked as Professor and Principal-in-Charge at Government College of Engineering; Ceramic Technology, Associate Professor at University Technology Petronas, Malasiya and as Scientist at Central Fuel Research Institute, Dhanbad. He has worked in industries too. Prof. Maitra published 150 research papers in different national & international journals, presented 60 papers in different conferences, filed two patents, authored three books and three book chapters. He has guided twelve Ph. D students, completed several funded research projects, organized several training program and workshops. He visited many countries like US, Australia, Italy, Malasiya, Singapore, Thailand, Bangladesh, Bahrain etc for delivering lecturers.

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