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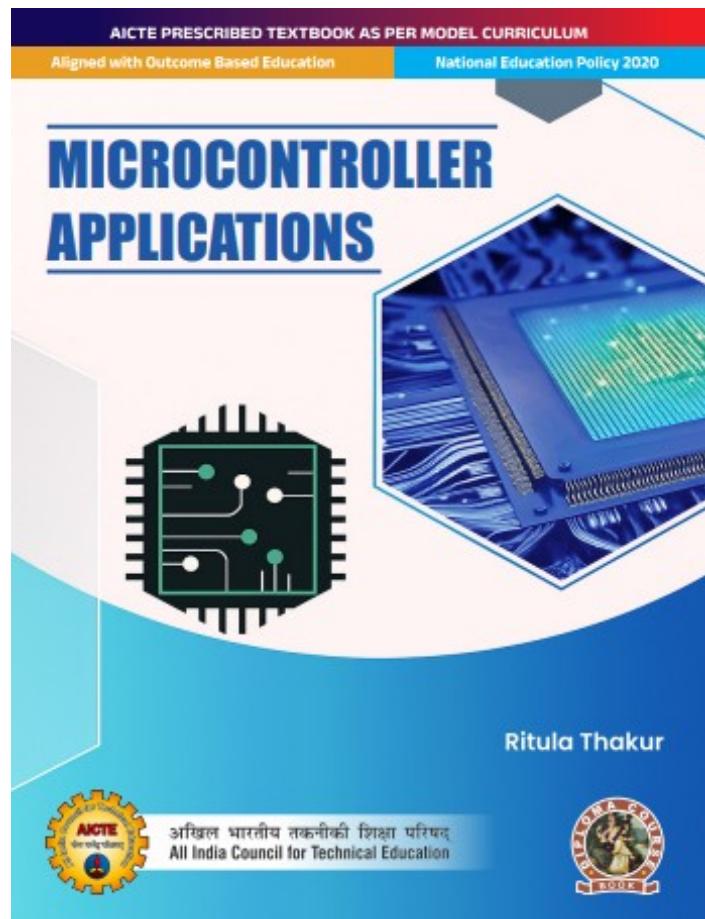
Energy Science and Engineering



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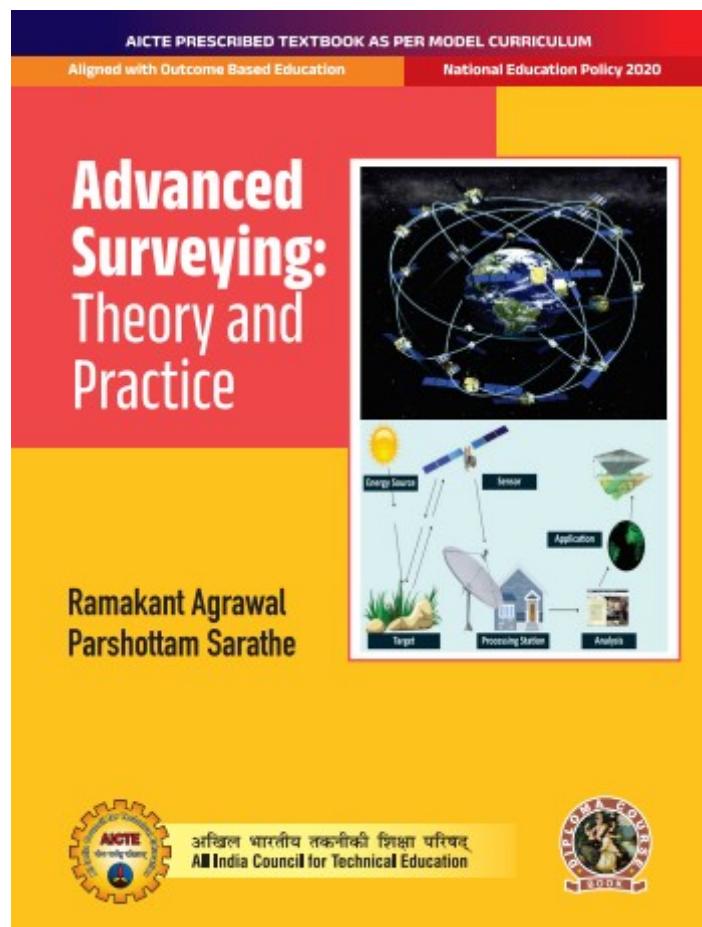
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Product Description

Advanced Surveying: Theory & Practice This book contains advanced topics of surveying for fourth semester students of diploma course strictly as per syllabus and model curriculum of AICTE and aligned with the theme of outcome-based education according to National Education Policy 2020. This book comprises of six chapters covering topics on plane table Surveying. Theodolite, tacheometry. Curves, total station, Electromagnetic measurement, Remote sensing and GPS & GIS. 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, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a 'know more' section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

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

Table of Contents

Foreword Acknowledgement Preface Outcome Based Education Course Outcomes Guidelines for Teachers Guidelines for Students Abbreviations and Symbols List of Figures List of Tables

1. Plane Table Surveying
2. Theodolite Surveying
3. Tacheometric Surveying
4. Curves
5. Advanced Surveying Equipment
6. Remote Sensing, GPS and GIS



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Environmental Science

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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 a 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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Table of Contents

Foreword, Acknowledgement, Preface, Outcome Based Education, Course Outcomes, Abbreviations and symbols, List of Figures, Guidelines for Teachers, Guidelines for Students, Unit 1: Ecosystem. Unit 2: Air and Noise pollution. Unit 3: Renewable sources of Energy. Unit 4: Soil waste Management, ISO 14000& Environmental management. Important Day Related to Environment CO and Po Attainment Table Index.

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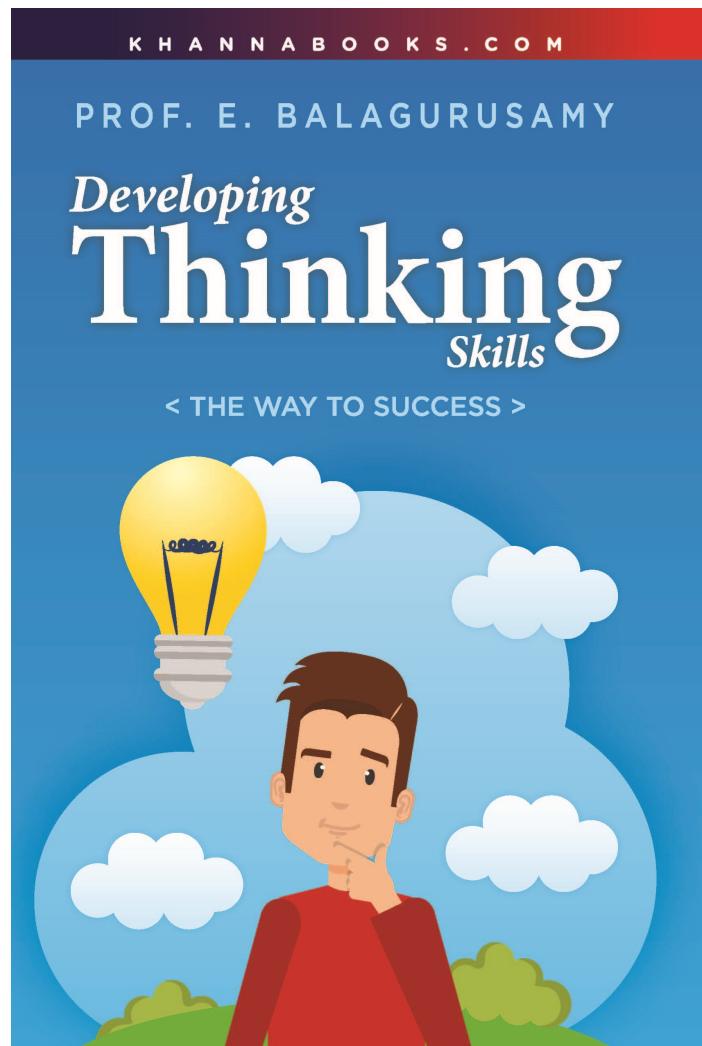
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Developing Thinking Skills (The Way to Success)

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Product Description

Industries and business around the world are changing very fast as they are constantly disrupted with new technologies, new ideas and new approaches. It is therefore imperative for students to learn to manage the change that will inundate their lives. World organizations like world Economic Forum (WEF), International labor Organization (ILO), Organization for Economic Cooperation and Development (OECD) and International Society for Technology Development (ISTE) have recommended a number of skills that the 21st century youth must possess in order to succeed in their professional and personal lives. They include, among others, the following 7C thinking skills: 1. Creative Thinking 2. Critical Thinking 3. Computational Thinking 4. Competitive Thinking 5. Comprehensive Thinking 6. Communicative Thinking 7. Collaborative Thinking This book is all about developing these skills among the readers. The book comprehensively covers all major aspects of thinking. It presents in a simple and lucid manner concepts, models, analysis and applications of various thinking styles. Wherever necessary, pictorial representations of concepts and models are provided to facilitate easy grasping and better understanding of the concepts discussed. This book focuses on "how to think rather than what to think". Successful thinking is a mindset that enables us to reach our full potential and provides us with the mental discipline to create and achieve positive outcomes. By mastering thinking skills, we can learn how to think differently and to solve problems at multiple levels of depth.

Table of Contents

Chapter 1 : Importance of Thinking Skills. **Chapter 2 :** Critical Thinking. **Chapter 3 :** Creativity and Creative Thinking. **Chapter 4:** Rational Thinking. **Chapter 5:** Design Thinking. **Chapter 6:** Ethical Thinking. **Chapter 7:** Systems Thinking. **Chapter 8:** Comparison of Thinking Styles.



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Prof. E. Balagurusamy is currently the Chairman of EBG Foundation, Coimbatore. He served as a Member of High-Level Committee on School Education of Tamil Nadu Government and Chairman of Committee for Development of Text Books on Science and Technology in Higher Education. He also served as a member (Education). Planning Commission of Tamil Nadu Government. He was earlier a Member of Union Public Service Commission and Chairman of Consortium for Educational Communications, New Delhi and Vice Chancellor of Anna University, Chennai, the largest technical university in India. A prolific writer, he has authored more than 40 Books on IT and Computer, many of them are being prescribed as texts in Universities and Colleges throughout India. Some of his books have been translated into Mandarin, Spanish, Korean and Russian Languages.

Prof. Balagurusamy, an ethical leader, philanthropist and recipient of numerous awards and honors, has established EBG Foundation, a Charitable Trust, to serve the socially and economically deprived sections of the society.

His biography "Nermaiin Payanam" (A Journey of Honesty) was released by Mrs. Nirmala Sitharaman, Hon'ble Minister of Finance, Government of India November, 2019.

He hold an ME(Hons) in Electrical Engineering, PhD in Systems Engineering, both from IIT, Roorkee and a Diploma in Education from U.K.



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