



Applied Chemistry (with Lab Manual)

Author :	Anju Rawlley
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Product Description

This textbook on “Applied Chemistry” is developed as per AICTE model curriculum, 2018, for compulsory course on Applied Chemistry of first years Diploma Programming in Engineering and Technology. Atomic Structure, Chemical Bonding & Solution, Water, Engineering Materials, Chemistry of fuels & Lubricants and Electrochemistry are the five units of this book, comprising of both practical and theory. Some salient features of the book:

1. Course Outcomes and Unit Outcomes are written specifically and are mapped with programming Outcomes.
2. Utmost care has been taken to amalgamate the philosophy of outcome-based education.
3. The structure of the textbook is comprehensive, where in practical exercises are integral part of each unit.
4. The text is presented in a very simple way with illustrations, examples, tables, flow chart, self-assessment questions and their solutions.
5. Micro projects, points/issue for the creative inquisitiveness & curiosity, know more, video links, case study and summary points are integral part of each unit to facilitate the students to develop the attitude of scientific inquiry, investigate the cause-and-effect relationship, systematic, scientific & logical thinking, ability to observe, analysis and interpret.
6. To meet the requirement of outcome-based education (OBE) and outcome-based assessment (OBA), criterion referenced testing (CRT) have been used as an integral part of assessment in each practical.
7. Sample QR codes have been provided in each unit on some topics/subtopics for supplementary reading and reinforcing the learning.

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Foreword Acknowledgement Preface Outcome Based Education Course Outcomes Abbreviations and Symbols List of Figures List of Tables Guidelines for Teachers Guidelines for Students Unit 1: Atomic Structure, Chemical Bonding and Solution. **Unit 2:** Water. **Unit 3:** Engineering Materials. **Unit 4:** Chemistry of Fuels and Lubricants. **Unit 5:** Electro Chemistry.



Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: + 91-99109 09320

Authors

Anju Rawlley

Devadatta Vinayakrao Saraf



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