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### KEY=1C - COOLEY WELLS

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### NEW PATTERN NTA JEE MAIN 2020 RESOURCE BOOK (SOLVED 2002 - 2019 PAPERS + 24 PART TESTS + 10 MOCK TESTS) WITH 5 ONLINE TESTS 7TH EDITION

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Disha Publications

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### ADVANCES IN IC ENGINES AND COMBUSTION TECHNOLOGY

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### SELECT PROCEEDINGS OF NCICEC 2019

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Springer Nature This book comprises select peer-reviewed proceedings of the 26th National Conference on IC Engines and Combustion (NCICEC) 2019 which was organised by the Department of Mechanical Engineering, National Institute of Technology Kurukshetra under the aegis of The Combustion Institute-Indian Section (CIIS). The book covers latest research and developments in the areas of combustion and propulsion, exhaust emissions, gas turbines, hybrid vehicles, IC engines, and alternative fuels. The contents include theoretical and numerical tools applied to a wide range of combustion problems, and also discusses their applications. This book can be a good reference for engineers, educators and researchers working in the area of IC engines and combustion.

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### UNESCO SCIENCE REPORT

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### TOWARDS 2030

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UNESCO Publishing There are fewer grounds today than in the past to deplore a North-South divide in research and innovation. This is one of the key findings of the UNESCO Science Report: towards 2030. A large number of countries are now incorporating science, technology and innovation in their national development agenda, in order to make their economies less reliant on raw materials and more rooted in knowledge. Most research and development (R&D) is taking place in high-income countries, but innovation of some kind is now occurring across the full spectrum of income levels according to the first survey of manufacturing companies in 65 countries conducted by the UNESCO Institute for Statistics and summarized in this report. For many lower-income countries, sustainable development has become an integral part of their national development plans for the next 10-20 years. Among higher-income countries, a firm commitment to sustainable development is often coupled with the desire to maintain competitiveness in global markets that are increasingly leaning towards 'green' technologies. The quest for clean energy and greater energy efficiency now figures among the research priorities of numerous countries. Written by more than 50 experts who are each covering the country or region from which they hail, the UNESCO Science Report: towards 2030 provides more country-level information than ever before. The trends and developments in science, technology and innovation policy and governance between 2009 and mid-2015 described here provide essential baseline information on the concerns and priorities of countries that could orient the implementation and drive the assessment of the 2030 Agenda for Sustainable Development in the years to come.

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### KARNATAKA PUE SOLVED PAPERS II PUC ENGLISH, PHYSICS, CHEMISTRY & MATHEMATICS (SET OF 4 BOOKS) (FOR 2023 EXAM)

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Oswaal Books and Learning Private Limited Latest Solved Paper with Scheme of Valuation-2022. Strictly as per the latest syllabus, blueprint & design of the question paper. All Typologies-Objective, VSA, SA & Essay Types Questions Previous Years' Exam(2011-2022) Questions with Scheme of Valuation NCERT Textbook Questions fully solved PUE Question Bank Fully solved Revision notes, Mind Maps & Concept videos for clarity of Concepts

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### 35 JEE MAIN ONLINE & OFFLINE PHYSICS, CHEMISTRY & MATHEMATICS TOPIC-WISE SOLVED PAPERS - 4TH EDITION

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Disha Publications • The book 35 JEE Main Physics, Chemistry & Mathematics Online & Offline Topic-wise Solved Papers provides the last 16 years ONLINE & OFFLINE 2002-17 papers. • The book contains a total of 35 papers - 17 papers of AIEEE/JEE Main from the year 2002 - 2017 held OFFLINE including the AIEEE 2011 RESCHEDULED paper and 18 JEE Main papers held ONLINE from 2012-17. • The books are distributed into around 28,31 & 27 topics in Physics, Chemistry & Mathematics respectively exactly following the chapter sequence of the NCERT books of class 11 and 12. • The questions in each topic are immediately followed by their detailed solutions. The book constitutes around 4100 most important MCQs.

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### MONTHLY CATALOG, UNITED STATES PUBLIC DOCUMENTS

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### JEE MAIN 2018 RESOURCE BOOK (SOLVED 2002 - 2017 PAPERS + 24 PART TESTS + 10 MOCK TESTS) WITH 5 ONLINE TESTS 5TH EDITION

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Disha Publications JEE Main 2018 Resource Book (Solved 2002 - 2017 Papers + 24 Part Tests + 10 Mock Tests) with 5 Online Tests 5th Edition has been divided into THREE parts: Part A: 24 Unit-wise Tests - 8 each in Physics, Chemistry & Mathematics Part B: JEE Main/ AIEEE past Solved Papers (2002 - 2017) Papers Part C: 10 Full Syllabus Mock Tests - 5 in the book and 5 ONLINE empowered with Insta Results and Feedback Reports. Thus all-in-all it is a 100% solution for both Online and Offline JEE Main exam.

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### JEE MAIN 2019 RESOURCE BOOK (SOLVED 2002 - 2018 PAPERS + 24 PART TESTS + 10 MOCK TESTS) WITH 5 ONLINE TESTS 6TH EDITION

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Disha Publications JEE Main 2019 Resource Book (Solved 2002 - 2018 Papers + 24 Part Tests + 10 Mock Tests) with 5 Online Tests 5th Edition has been divided into THREE parts: Part A: 24 Unit-wise Tests - 8 each in Physics, Chemistry & Mathematics Part B: JEE Main/ AIEEE past Solved Papers (2002 - 2018) Papers Part C: 10 Full Syllabus Mock Tests - 5 in the book and 5 ONLINE empowered with Insta Results and Feedback Reports. Thus all-in-all it is a 100% solution for both Online and Offline JEE Main exam.

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### NDA/ NA 16 YEARS ENGLISH & GENERAL KNOWLEDGE TOPIC-WISE SOLVED PAPERS (2006 - 2021) 2ND EDITION

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Disha Publications

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### ISTFA 2014

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### CONFERENCE PROCEEDINGS FROM THE 40TH INTERNATIONAL SYMPOSIUM FOR TESTING AND FAILURE ANALYSIS

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ASM International This volume features the latest research and practical data from the premier event for the microelectronics failure analysis community. The papers address the symposium's theme, Exploring the Many Facets of Failure Analysis.

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### MATERIALS FOR CHEMICAL SENSING

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Springer This book covers new materials used as analytical devices for increasing the interactions between the development of new analytical devices and materials science. The authors describe how different types of materials such as polymers, self-assembled layers, phthalocyanines, and nanomaterials can further enhance sensitivity and promote selectivity between analytes for different applications. They explain how continuing research and discussion into materials science for chemical sensing is stimulating the search for different strategies and technologies that extract information for these chemical sensors in order to obtain a chemical fingerprint of samples.

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### GENERAL SCIENCE SOLVED PAPERS

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### YOUTH COMPETITION TIMES 2020 RRB GENERAL SCIENCE SOLVED PAPERS

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### CHAPTERWISE TOPICWISE SOLVED PAPERS CHEMISTRY FOR ENGINEERING ENTRANCES 2020

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Arihant Publications India limited For cracking any competitive exam one need to have clear guidance, right kind of study material and thorough practice. When the preparation is done for the exams like JEE Main and NEET one need to have clear concept about each and every topic and understanding of the examination pattern are most important things which can be done by using the good collection of Previous Years' Solved Papers. Chapterwise Topicwise Solved Papers CHEMISTRY for Engineering Entrances is a master collection of exams questions to practice for JEE Main & Advanced 2020, which have been consciously revised as per the latest pattern of exam. It carries 15 Years of Solved Papers [2019-2005] in both Chapterwise and topicwise manner by giving the full coverage to syllabus. Each topic is well explained in a lucid manner so that candidates can understand the concept easily and quickly. This book gives the complete coverage of Questions asked in JEE Main & Advanced, AIEEE, IIT JEE & BITSAT, UPSEE, MANIPAL, EAMCET, WB JEE, etc., Thorough practice done from this book will the candidates to move a step towards their success. TABLE OF CONTENT PART I Based on Class XI NCERT - Some Basic Concepts of Chemistry, Structure of Atom, Classification of Elements and Periodicity in Properties, Chemical Bonding and Molecular Structure, States of Matter, Thermodynamics, Equilibrium, Redox Reactions, Hydrogen, s-Block Elements, p-Block Elements, Organic Chemistry : Some Basic Principles and Techniques, Hydrocarbons, Environmental Chemistry, PART II Based on Class XII NCERT - The Solid State, Solutions, Electrochemistry, Chemical Kinetics, Surface Chemistry, Nuclear Chemistry, p-Block Elements, The d-and f-Block Elements,

Coordination Compounds, Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers, Aldehydes, Ketones and Carboxylic Acids, Nitrogen Containing Compounds, Biomolecules, Polymers, Chemistry in Everyday Life, Analytical Chemistry, General Principles and Processes of Isolation of Elements, Questions Asked in JEE Main 2015, Solved Papers 2016 (JEE Main, BITSAT, AP EAMCET, TS EAMCET, GGSIPU), Solved Papers 2017 (JEE Main & Advanced, BITSAT, VIT & WBJEE), Solved Papers 2018 (JEE Main & Advanced, BITSAT & WBJEE), Solved Papers 2019 (JEE Main & Advanced, BITSAT & WBJEE).

### **35 JEE MAIN CHEMISTRY ONLINE (2017-2012) & OFFLINE (2017-2002) CHAPTER-WISE + TOPIC-WISE SOLVED PAPERS**

Disha Publications • The book 35 JEE Main Chemistry Online & Offline Topic-wise Solved Papers provides the last 16 years ONLINE & OFFLINE 2002-17 papers. • The book contains a total of 35 papers - 17 papers of AIEEE/ JEE Main from the year 2002 - 2017 held OFFLINE including the AIEEE 2011 RESCHEDULED paper and 18 JEE Main papers held ONLINE from 2012-17. • The book is distributed into around 30 topics exactly following the chapter sequence of the NCERT books of class 11 and 12. • The questions in each topic are immediately followed by their detailed solutions. The book constitutes around 4600 most important MCQs.

### **39 JEE MAIN CHEMISTRY ONLINE (2018-2012) & OFFLINE (2018-2002) CHAPTER-WISE + TOPIC-WISE SOLVED PAPERS 2ND EDITION**

Disha Publications • The book 39 JEE Main Chemistry Online & Offline Topic-wise Solved Papers provides the last 17 years ONLINE & OFFLINE 2002-18 papers. • The book contains a total of 39 papers - 18 papers of AIEEE/ JEE Main from the year 2002 - 2018 held OFFLINE including the AIEEE 2011 RESCHEDULED paper and 21 JEE Main papers held ONLINE from 2012-18. • The book is distributed into around 30 topics exactly following the chapter sequence of the NCERT books of class 11 and 12. • The questions in each topic are immediately followed by their detailed solutions. The book constitutes around 4720 most important MCQs.

### **43 JEE MAIN CHEMISTRY ONLINE (2019-2012) & OFFLINE (2018-2002) CHAPTER-WISE + TOPIC-WISE SOLVED PAPERS 3RD EDITION**

Disha Publications • The book 43 JEE Main Chemistry Online & Offline Topic-wise Solved Papers provides the last 18 years ONLINE & OFFLINE (2002-18) papers. • The book contains a total of 43 papers - 17 papers of JEE Main from the year 2002 - 2018 held OFFLINE including the AIEEE 2011 RESCHEDULED paper and 25 JEE Main papers held ONLINE from 2012-19. • The book also provides separate (web link) free access to the 16 Online Solved Papers held in January & April, 2019. • The book is distributed into around 30 Chapters exactly following the chapter sequence of the NCERT books of class 11 and 12. • The questions in each Chapter are further divided into 2-3 topics. The Questions are immediately followed by their detailed solutions. • The book constitutes of 1680 MCQs with Solutions.

### **CDS & CDS OTA 14 YEARS GENERAL KNOWLEDGE TOPIC WISE SOLVED PAPERS (2007-2020)**

Disha Publications

### **CDS & CDS OTA 16 YEARS GENERAL KNOWLEDGE TOPIC WISE SOLVED PAPERS (2007 - 2022) 3RD EDITION**

Disha Publications CDS & CDS OTA 16 Years General Knowledge Topic wise Solved Papers (2007 - 2022) 3rd Edition CDS & CDS OTA 16 Years General Knowledge Topic-wise Solved Papers (2007 Feb - 2022 April)' consists of last 16 years from 2007 Paper 1 - 2022 Paper 1 solved papers of General Knowledge distributed into 9 topics. # In all there are 31 Question papers from 2007 to 2022 - I which have been divided into the above discussed 9 topics. Practicing these questions, aspirants will come to know about the pattern and toughness of the questions asked in the examination. # The book contains 3640+ MILESTONE MCQ's from the above 31 Question papers. # The strength of the book lies in the originality of its question papers and Errorless Solutions. # The solution of each and every question is provided in detail (step-by-step) so as to provide 100% concept clarity to the students.

### **71 JEE MAIN CHEMISTRY ONLINE (2020 - 2012) & OFFLINE (2018 - 2002) CHAPTERWISE + TOPICWISE SOLVED PAPERS 4TH EDITION**

Disha Publications

### **CDS 12 YEARS TOPIC-WISE SOLVED PAPERS MATHEMATICS, ENGLISH & GENERAL KNOWLEDGE (2007-2018) - 3RD EDITION**

Disha Publications The thoroughly revised & updated 3rd edition of 'CDS 12 Years Mathematics, English & General Knowledge Topic-wise Solved Papers (2007 Feb - 2018 Feb)' consists of last 12 years (both Feb and November papers) from 2007 Paper 1 - 2018 Paper 1 solved papers of Elementary Mathematics, English and General Knowledge distributed into 42 topics. In all there are 23 Question papers from 2007 to 2018 - I which have been divided into the above discussed 42 topics. Practicing these questions, aspirants will come to know about the pattern and toughness of the questions asked in the examination. All the papers are divided into following sections: Section I - Mathematics which is distributed into 25 topics Section II - English is divided into 8 topics Section III - General Knowledge is divided into 9 topics The book contains 6460+ MILESTONE MCQ's from the above 23 Question papers. The strength of the book lies in the originality of its question papers and Errorless Solutions. The solution of each and every question is provided in detail (step-by-step) so as to provide 100% concept clarity to the students.

### **25 AIIMS CHEMISTRY CHAPTER-WISE SOLVED PAPERS (1997-2018) WITH REVISION TIPS & 3 ONLINE MOCK TESTS**

Disha Publications Chapter-wise 25 Chemistry Solved Papers AIIMS (1997-2018) with Revision Tips & 3 Online Tests consists of 25 Papers - 4 papers of 2018 Online AIIMS with 21 Solved Papers from 1997-2017 distributed into 30 Chapters. The book also provides Quick Revision Tips & Techniques useful to revise the syllabus before the exam. 3 Online Tests of Chemistry are also provided with this book. These tests can be accessed through a voucher code. The book contains around 1500 MCQs - 1000 Simple MCQs and 500 Assertion-Reason type MCQs.

### **29 AIIMS CHEMISTRY CHAPTER-WISE SOLVED PAPERS (1997-2019) WITH REVISION TIPS & 3 ONLINE MOCK TESTS - 2ND EDITION**

Disha Publications

### **44 YEARS IIT-JEE CHEMISTRY CHAPTER WISE SOLVED PAPERS (1978 - 2021) BY CAREER POINT**

Career Point Publication Whenever a student decides to prepare for any examination, her/his first and foremost curiosity arises about the type of questions that he/she has to face. This becomes more important in the context of JEE Advanced where there is neck-to-neck race. For this purpose, we feel great pleasure to present this book before you. We have made an attempt to provide 44 Years IIT-JEE Chemistry chapter wise questions asked in IIT-JEE /JEE Advanced from 1978 to 2021 along with their solutions. Features Topic-wise collection of past JEE-Advanced question papers (1978-2021). Each chapter divides the questions into categories (as per the latest JEE Advanced pattern) - MCQ single correct answer, MCQ with multiple correct answers, Passage Based, Assertion-Reason, Integer Answer, Fill in the Blanks, True/False and Subjective Questions. Solutions have been given with enough diagrams, proper reasoning for better understanding. Students must attempt these questions immediately after they complete unit in their class/school/home during their preparation. Chapters: 44 Years IIT-JEE Chemistry Solved Papers (1978-2021) 1. Mole Concept & Stoichiometry 2. Atomic Structure 3. Chemical Bonding 4. Gaseous & Liquid State 5. Chemical And Ionic Equilibrium 6. Chemical Energy 7. Periodic Table 8. Extraction Of Metal & The S- Block Elements 9. General Organic Chemistry 10. Hydrocarbons & Halogen Derivatives 11. Colligative Properties Of Solution 12. Chemical Kinetic & Nuclear Chemistry 13. Solid State, Surface Chemistry Colloids 14. Electrochemistry 15. The P Block Elements 16. The Transition & Co-Ordination Compounds 17. Analytical Chemistry 18. Compound Contains Oxygen 19. Compound Contains Nitrogen & Practical Organic Chemistry 20. Carbohydrates Amino Acid & Misc Match The Following 21. Model Test Paper

### **NEET 29 YEARS CHAPTERWISE SOLVED PAPERS OF CHEMISTRY (1993 - 2021) BY CAREER POINT KOTA**

Career Point Publication Whenever a student decides to prepare for any examination, her/his first and foremost curiosity arises about the type of questions that he/she has to face. This becomes more important in the context of NEET/AIPMT where there is neck-to-neck race. For this purpose, we feel great pleasure to present this book before you. We have made an attempt to provide chapter wise questions asked in NEET from 1993 to 2021 along with solutions. Features Chapterwise Solved Papers with Model Test Papers with detailed solution. Topic-wise collection of past NEET questions (1993-2021). Solutions have been given with enough diagrams, proper reasoning for better understanding. Students must attempt these questions immediately after they complete the unit in their class/school/home during their preparation.

### **COMPLETE CHEMISTRY FOR CAMBRIDGE IGCSE®**

Oxford University Press - Children Fully updated and matched to the Cambridge syllabus, this stretching Student Book is trusted by teachers around the world to support advanced understanding and achievement at IGCSE. The popular, stretching approach will help students to reach their full potential. Written by experienced authors, this updated edition is full of engaging content with up-to-date examples to cover all aspects of the Cambridge syllabus. The step-by-step approach will lead students through the course in a logical learning order building knowledge and practical skills with regular questions and practical activities. Extension material will stretch the highest ability students and prepare them to take the next step in their learning. Practice exam questions will consolidate student understanding and prepare them for exam success. You will also receive free access to extra support online, including practice exam questions, revision checklists and advice on how to prepare for an examination.

### **31 YEARS NEET CHAPTER-WISE & TOPIC-WISE SOLVED PAPERS CHEMISTRY (2018 - 1988) 13TH EDITION**

Disha Publications • NEET Topic-wise Solved Papers CHEMISTRY contains the past year papers of NEET, 2018 to 1988 distributed in 31 Topics. • The Topics have been arranged exactly in accordance to the NCERT books so as to make it 100% convenient to Class 11 & 12 students. • The fully solved CBSE Mains papers of 2011 & 2012 (the only Objective CBSE Mains paper held) have also been incorporated in the book topic-wise. • The book also contains NEET 2013 along with the Karnataka NEET 2013 paper. • The detailed solutions of all questions are provided at the end of each chapter to bring conceptual clarity. • The book contains around 1645+ MILESTONE PROBLEMS.

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### 32 YEARS NEET CHAPTER-WISE & TOPIC-WISE SOLVED PAPERS CHEMISTRY (2019 - 1988) 14TH EDITION

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Disha Publications • NEET Topic-wise Solved Papers CHEMISTRY contains the past year papers of NEET, 2019 to 1988 distributed in 31 Topics. • The Topics have been arranged exactly in accordance to the NCERT books so as to make it 100% convenient to Class 11 & 12 students. • The fully solved CBSE Mains papers of 2011 & 2012 (the only Objective CBSE Mains paper held) have also been incorporated in the book topic-wise. • The book also contains NEET 2013 along with the Karnataka NEET 2013 paper. • The detailed solutions of all questions are provided at the end of each chapter to bring conceptual clarity. • The book contains around 1690+ MILESTONE PROBLEMS.

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### 30 YEARS NEET CHAPTER-WISE & TOPIC-WISE SOLVED PAPERS CHEMISTRY (2017 - 1988) 12TH EDITION

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Disha Publications • NEET Topic-wise Solved Papers CHEMISTRY contains the past year papers of NEET, 1988 to 2017 distributed in 31 Topics. • The Topics have been arranged exactly in accordance to the NCERT books so as to make it 100% convenient to Class 11 & 12 students. • The fully solved CBSE Mains papers of 2011 & 2012 (the only Objective CBSE Mains paper held) have also been incorporated in the book topic-wise. • The book also contains NEET 2013 along with the Karnataka NEET 2013 paper. • The detailed solutions of all questions are provided at the end of each chapter to bring conceptual clarity. • The book contains around 1600+ MILESTONE PROBLEMS IN PHYSICS.

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### BITSAT 13 YEARS TOPIC-WISE SOLVED PAPERS (2017-2005) WITH 5 ONLINE MOCK TESTS

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Disha Publications (This book contains an access code for the 5 Online Tests. In case of any inconvenience write to us at support@mylearninggraph.com.) BITSAT 13 years Topic-wise Solved Papers (2017-2005) with 5 Online Mock Tests consists of past years (memory based) solved papers from 2005 (first year of the exam) onwards till date, distributed in 29, 31, 28, 5 & 5 topics in Physics, Chemistry, Biology, English and Logical Reasoning respectively. The book contains 2500+ past MCQs. The book also contains 5 fully Solved Online Mock Tests.

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### APPLICATION OF LIQUID BIOFUELS TO INTERNAL COMBUSTION ENGINES

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Springer Nature This book provides a comprehensive overview of the application of liquid biofuels to internal combustion (IC) engines. Biofuels are one of the most promising renewable and sustainable energy sources. Particularly, liquid biofuels obtained from biomass could become a valid alternative to the use of fossil fuels in the light of increasingly stringent environmental constraints. In this book, the discussion is limited to liquid biofuels obtained from triglycerides and lignocellulose among the many different kinds of biomass. Several liquid biofuels from triglycerides, straight vegetable oil, biodiesel produced from inedible vegetable oil, hydrotreated vegetable oil, and pyrolytic oil have been selected for discussion, as well as biofuels from lignocellulose bio-oil, alcohols such as methanol, ethanol and butanol, and biomass-to-liquids diesel. This book includes three chapters on the application of methanol, ethanol and butanol to advanced compression ignition (CI) engines such as LTC, HCCI, RCCI and DF modes. Further, the application of other higher alcohols and other drop-in fuels such as DMF, MF, MTHF, and GVL are also discussed. The book will be a valuable resource for graduate students, researchers and engine designers who are interested in the application of alcohols and other biofuels in advanced CI engines, and also useful for alternative energy planners selecting biofuels for CI engines in the future.

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### ENVIRONMENTAL MONITORING AND REMEDIATION USING MICROBIOTECHNOLOGY

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Frontiers Media SA

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### BITSAT 17 YEARS CHAPTER-WISE SOLVED PAPERS (2021 - 2005) 5TH EDITION

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Disha Publications BITSAT 17 years Chapter-wise Solved Papers (2021 - 2005) consists of past years (memory based) Solved papers from 2005 (first year of the exam) onwards till date, distributed in 29, 31, 28, 5 & 5 topics in Physics, Chemistry, Mathematics, English and Logical Reasoning respectively. The book contains 3000+ past MCQs. The solutions provided are 100% and well explained. The book has 5 sections: # Section 1 - Physics Chapters 1 to 28. # Section 2 - Chemistry Chapters 1 to 31. # Section 3 - Mathematics Chapters 1 to 29. # Section 4: English Language & Comprehension Chapters 1 to 2 # Section 5: Logical Reasoning Chapters 1 to 2

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### GUIDE TO RRB JUNIOR ENGINEER STAGE II EXAM - PHYSICS, CHEMISTRY, GENERAL AWARENESS, BASICS OF COMPUTERS, ENVIRONMENT & POLLUTION CONTROL

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Disha Publications The book Guide to RRB Junior Engineer Stage II Online Exam has 4 sections (common to all streams): General Awareness, Physics & Chemistry, Basics of Computers and Applications & Basics of Environment and Pollution Control. • Each section is further divided into chapters which contains theory explaining the concepts involved followed by MCQ exercises. • The book provides the past 2014 & 2015 Solved Questions. • The detailed solutions to all the questions are provided at the end of each chapter.

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### 43 YEARS CHAPTERWISE TOPICWISE SOLVED PAPERS (2021-1979) IIT JEE CHEMISTRY

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Arihant Publications India limited

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### COMPLETE CHEMISTRY

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Oxford University Press, USA Complete Chemistry is a revised and enlarged edition of the popular GCSE Chemistry improved to bring it totally up-to-date. This book covers all syllabuses with core material, for Double Award, and extension material, for Science: Chemistry. The breadth and depth is sufficient to stretch your students aiming for the top grades and makes it an excellent foundation for those intending to progress to advanced level chemistry. Key Points: • Now includes all the necessary topics for IGCSE • Concepts and principles of chemistry presented in a clear, straightforward style • Lively and colourful coverage of the relevance of chemistry in the real world • End of chapter testing with more challenging and structured questions • Examination style questions • Pagination remains the same as GCSE Chemistry so that the two can be used alongside each other

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### 33 YEARS NEET CHAPTERWISE & TOPICWISE SOLVED PAPERS CHEMISTRY (2020 - 1988) 15TH EDITION

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Disha Publications

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### 29 ONLINE JEE MAIN YEAR-WISE SOLVED PAPERS (2020 - 2012) WITH 5 ONLINE MOCK TESTS 3RD EDITION

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Disha Publications

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### 11 YEARS SOLVED PAPERS IIT JEE MAINS & ADVANCED 2021

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Arihant Publications India limited 1. '11 Years' IIT JEE Solved Papers' provides solid practice, strong and strong grip on concepts 2. Provides solved papers [2020-2010] IIT JEE (JEE Main & Advanced) for practice. 3. Inculcates problem solving skills in students 4. Step-by-step detailed solutions to questions in all three subjects 5. Builds the concept deeply from the basic level for better understanding Preparing for IIT JEE (Main & Advanced) already creates an intense atmosphere among students who are appearing in it. This revised edition of '11 years Solved Papers [2010 -2020] IIT JEE (Mains & Advanced)' is cautiously designed to improve the problem-solving skills in students. As the name of the book suggests, these previous years' solved papers from 2010 to 2020 provides thorough practice. Detailed step by step solutions and guidance to the analytical, theoretical and calculative questions of Physics, Chemistry and Mathematics, enables aspirants an in-depth conceptual understanding for the topic that help them to answer correctly on time. With the help of these Years Solved papers, this book helps to build trust for getting success out of upcoming IIT JEE Exam 2021. TABLE OF CONTENT Solved Questions Papers [2010-2020]

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### 20 YEARS CHAPTERWISE TOPICWISE (2021-2002) JEE MAIN SOLVED PAPERS CHEMISTRY

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Arihant Publications India limited

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### COORDINATION CHEMISTRY OF SILICON

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MDPI The chemistry of silicon has always been a field of major concern due to its proximity to carbon on the periodic table. From the molecular chemist's viewpoint, one of the most interesting differences between carbon and silicon is their divergent coordination behavior. In fact, silicon is prone to form hyper-coordinate organosilicon complexes, and, as conveyed by reports in the literature, highly sophisticated ligand systems are required to furnish low-coordinate organosilicon complexes. Tremendous progress in experimental, as well as computational, techniques has granted synthetic access to a broad range of coordination numbers for silicon, and the scientific endeavor, which was ongoing for decades, was rewarded with landmark discoveries in the field of organosilicon chemistry. Molecular congeners of silicon(0), as well as silicon oxides, were unveiled, and the prominent group 14 metalloid proved its applicability in homogenous catalysis as a supportive ligand or even as a center of catalytic activity. This book focuses on the most recent advances in the coordination chemistry of silicon with transition metals as well as main group elements, including the stabilization of low-valent silicon species through the coordination of electron donor ligands. Therefore, this book is associated with the development of novel synthetic methodologies, structural elucidations, bonding analysis, and also possible applications in catalysis or chemical transformations using related organosilicon compounds.