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v 7b dT ? RT (v 7b)2 dv +2 a v3 dv ? 0 where dp = 0 is another way of saying that one is holding p constant. R v 7b dT = RT (v 7b)2 2a + v3 dv which allows us to form dv dT by division of both sides by dT, which leads to our ultimate answer. 5. Given that the fraction of molecules with speeds between v and v +dv is dN = 4v^2 m 2/3KT 3 2 emv 2 2KT dv

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Problems in Physical Chemistry for JEE (Main & Advanced), Chemistry Olympiad etc is a collection of conceptual questions along with detailed solutions. These questions are thought-provoking and cover the application of various concepts in solving problems. Questions in this book are handpicked by experienced faculty members of Career Point to enhance the following skills of the students– Understanding of concepts and their application to the grass-root level. Improving their scoring ability & accuracy by providing an opportunity to practice a variety of questions. The book approaches the subject in a very conceptual and coherent manner. Chapter-wise varieties of questions are arranged in a sequential manner to build a strong foundation of fundamentals. The coverage and features of books make it highly useful for all those preparing for JEE (Advanced) & similar advanced level exams. The book is also useful for students who are preparing for KVPY and Olympiads. This volume consists of chapter-wise challenging questions with detailed explanatory solutions from the following chapters - 1. Basic Concepts of Chemistry 2. Atomic Structure 3. Gaseous State 4. Chemical Energetics 5. Redox & Volumetric Analysis 6. Chemical Equilibrium 7. Acid-Base & Ionic Equilibrium 8. Chemical Kinetics 9. Nuclear Chemistry 10. Electro Chemistry 11. Solid State 12. Solutions 13. Surface Chemistry

A Textbook for B.Sc. (Part III and Hons.) and Postgraduate Courses of Indian Universities. In this edition, I have made major changes in the light of modern concepts introduced in syllabi at the under-graduate and postgraduate level as well. With matter has also been updated. The subject matter has been arranged systematically, in a lucid style and simple language. New Problems and exercises have also been introduced to acquaint the students with trend of questions they except in the examinations.

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During the last three decades, there have been dramatic changes in the steel industry in terms of the quality of products, processing technology, energy efficiency, labor productivity and environmental protection. The once prominent role of the metals industry in national economies is declining in industrialized countries to the point where fewer research engineers are employed in the industry. The scope of this book is limited to selected topics within the field of Physical Chemistry of Iron and Steelmaking that are relevant to reduction, refining and solidification steps in the steel industry. The authors, leaders in the field, have gathered the complex information regarding metallurgy in this collection to enable the next generation to take this branch of science, and the metals industry, to new heights. Graduate students and research engineers will find this book particularly useful, while practicing engineers, innovators and managers in technology development will read and consult this book for inspiration and reference. Key Features • Covers both equilibrium and non-equilibrium phenomena • Projects challenges to be answered by current or future researchers and innovators in industry • Each article reviews major achievements in scientific understanding on the subject

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