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KEY=CONCEPTS - VALENTINE STOUT

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CHEMISTRY

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CONCEPTS AND APPLICATIONS

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KEY CONCEPTS IN ENVIRONMENTAL CHEMISTRY

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ELECTROCHEMISTRY

THE BASICS, WITH EXAMPLES

Springer Science & Business Media This textbook offers original and new approaches to the teaching of electrochemical concepts, principles and applications. Throughout the text the authors provide a balanced coverage of the thermodynamic and kinetic processes at the heart of electrochemical systems. The first half of the book outlines fundamental concepts appropriate to undergraduate students and the second half gives an in-depth account of electrochemical systems suitable for experienced scientists and course lecturers. Concepts are clearly explained and mathematical treatments are kept to a minimum or reported in appendices. This book features: - Questions and answers for self-assessment - Basic and advanced level numerical descriptions - Illustrated electrochemistry applications This book is accessible to both novice and experienced electrochemists and supports a deep understanding of the fundamental principles and laws of electrochemistry.

THE IIT FOUNDATION SERIES - PHYSICS CLASS 10, 2/E

Pearson Education India

THE IIT FOUNDATION SERIES - MATHEMATICS CLASS 7

Pearson Education India

CRITICAL THINKING

TOOLS FOR TAKING CHARGE OF YOUR LEARNING AND YOUR LIFE

Foundation for Critical Thinking Written by two of the leading experts in the field, this introductory text presents critical thinking as a process for taking charge of and responsibility for one’s thinking. Based in theory developed over the last 30 years, Richard Paul and Linda Elder's text focuses on an integrated, comprehensive concept of critical thinking that is both substantive and practical. It fosters the development of basic intellectual skills students need to think through content in any class, subject, or discipline, as well as through any problem or issue they face. Simply stated, this text offers students the intellectual tools students need for lifelong learning, and rational, conscientious living. Now available from Rowman & Littlefield, the third edition features streamlined chapters, Think for Yourself activities, and a complete glossary of critical thinking terms. The Foundation for Critical Thinking continually offers new supplementary resources on its website (www.CriticalThinking.org) and online critical thinking community.

CRITICAL THINKING

TOOLS FOR TAKING CHARGE OF YOUR LEARNING AND YOUR LIFE

Rowman & Littlefield This introductory critical thinking text provides an integrated, universal concept of critical thinking that is both substantive and practical. Furthering lifelong application of critical thinking skills, the fourth edition features new discussions of argumentation, critical thinking in the professional world, the internet, and media bias.

CHEMISTRY EDUCATION

BEST PRACTICES, OPPORTUNITIES AND TRENDS

John Wiley & Sons This comprehensive collection of top-level contributions provides a thorough review of the vibrant field of chemistry education. Highly-experienced chemistry professors and chemistry education experts at universities all over the world cover the latest developments in chemistry learning and teaching, as well as the pivotal role of chemistry for shaping the future world. Adopting a practice-oriented approach, they offer a critical view of the current challenges and opportunities of chemistry education, highlighting the pitfalls that can occur, sometimes unconsciously, in teaching chemistry and how to circumvent them. The main topics discussed include the role of technology, best practices, science visualization, and project-based education. Hands-on tips on how to optimally implement novel methods of teaching chemistry at university and high-school level make this is a useful resource for professors with no formal training in didactics as well as for secondary school teachers.

CHEMISTRY

CONCEPTS AND PROBLEMS, A SELF-TEACHING GUIDE

John Wiley & Sons THE QUICK AND PAINLESS WAY TO TEACH YOURSELF BASIC CHEMISTRY CONCEPTS AND TERMS Chemistry: A Self-Teaching Guide is the easy way to gain a solid understanding of the essential science of chemistry. Assuming no background knowledge

of the subject, this clear and accessible guide covers the central concepts and key definitions of this fundamental science, from the basic structure of the atom to chemical equations. An innovative self-guided approach enables you to move through the material at your own pace—gradually building upon your knowledge while you strengthen your critical thinking and problem-solving skills. This edition features new and revised content throughout, including a new chapter on organic chemistry, designed to dramatically increase how fast you learn and how much you retain. This powerful learning resource features: An interactive, step-by-step method proven to increase your understanding of the fundamental concepts of chemistry Learning objectives, practice questions, study problems, and a self-review test in every chapter to reinforce your learning An emphasis on practical concepts and clear explanations to ensure that you comprehend the material quickly Engaging end-of-chapter stories connecting the material to a relevant topic in chemistry to bring important concepts to life Concise, student-friendly chapters describing major chemistry concepts and terms, including the periodic table, atomic weights, chemical bonding, solutions, gases, solids, and liquids Chemistry: A Self-Teaching Guide is an ideal resource for high school or college students taking introductory chemistry courses, for students taking higher level courses needing to refresh their knowledge, and for those preparing for standardized chemistry and medical career admission tests.

EBOOK: ORGANIC CHEMISTRY

McGraw Hill Serious Science with an Approach Built for Today’s Students Smith's Organic Chemistry continues to breathe new life into the organic chemistry world. This new fourth edition retains its popular delivery of organic chemistry content in a student-friendly format. Janice Smith draws on her extensive teaching background to deliver organic chemistry in a way in which students learn: with limited use of text paragraphs, and through concisely written bulleted lists and highly detailed, well-labeled “teaching” illustrations. Don’t make your text decision without seeing Organic Chemistry, 4th edition by Janice Gorzynski Smith!

ESSENTIAL LABORATORY MATHEMATICS

CONCEPTS AND APPLICATIONS FOR THE CLINICAL AND CHEMICAL LABORATORY TECHNICIAN, SECOND EDITION

Waveland Press This hands-on manual, with pedagogical features that draw the learner into the content, offers clear and complete coverage of the mathematical topics most often used in today’s clinical and medical laboratories. Furthermore, it provides a solid foundation for subsequent courses in the laboratory sciences. The first two chapters present a review of basic mathematical concepts. The remainder of the book provides students with a realistic means to build on previously learned concepts— both mathematical and scientific—to refine their mathematical skills, and to gauge their mastery of those skills. Outstanding features . . . • Each chapter opens with an outline, objectives, and key terms. • Key terms, highlighted within the text, are listed and defined in the glossary. • “Margin problems” and practice problem sets provide the chance to gain immediate proficiency. • Laboratory exercises and review problems allow students to apply what they’ve learned and assess their understanding and progress. • A special calculator icon signals explanations of calculator use for a particular mathematical function. • Study hints—“Keys to Success”—offer practical suggestions and guidance for maximizing achievement. • The workbook design enables users to solve problems and take notes directly on the pages.

THE IIT FOUNDATION SERIES - MATHEMATICS CLASS 8, 2/E

Pearson Education India