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engineering, biochemistry, and medicine deepen students' understanding of the relevance of chemistry beyond the classroom.

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Cambridge University Press

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direction to "High School Chemistry," which is an outline of notes. The books go hand-in-hand:

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This book is mainly concerned with building a narrow but secure ladder which polymer chemists or engineers can climb from the primary level to an advanced level without great difficulty (but by no means easily, either). This book describes some fundamentally important topics, carefully chosen, covering subjects from thermodynamics to molecular weight and its distribution effects. For help in self-education the book adopts a "Questions and Answers" format. The mathematical derivation of each equation is shown in

detail. For further reading, some original references are also given. Numerous physical properties of polymer solutions are known to be significantly different from those of low molecular weight solutions. The most probable explanation of this obvious discrepancy is the large molar volume ratio of solute to solvent together with the large number of consecutive segments that constitute each single molecule of the polymer chains present as solute. Thorough understanding of the physical chemistry of polymer solutions requires some prior mathematical background in its students. In the original literature, detailed mathematical

derivations of the equations are universally omitted for the sake of space-saving and simplicity. In textbooks of polymer science only extremely rough schemes of the theories and then the final equations are shown. As a consequence, the student cannot learn, unaided, the details of the theory in which he or she is interested from the existing textbooks; however, without a full understanding of the theory, one cannot analyze actual experimental data to obtain more basic and realistic physical quantities. In particular, if one intends to apply the theories in industry, accurate understanding and

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Nature generates structurally complex

architectures with feature sizes covering several length scales under rather simple environmental conditions and with limited resources. Today, researchers understand how many of these structures look and behave, but, in many instances, we still lack nature's ability to marry elegant structures with complex functionality. By unraveling the wonders of nature's design, scientists have developed biomimetic and biotemplated materials with entirely new functions and behaviors. In particular, solution-based methods provide simple, inexpensive routes to generating bioreplicated structures. In this chapter, we survey solution-based

bioreplication methods and provide an example for generating three-dimensional photonic crystal structures based on colored weevil scales. This example illustrates how structural engineering in biology can be replicated using sol-gel chemistry and results in an entirely new optical material with fascinating properties.

Chemical Engineering Prentice Hall

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A Textbook of Physical Chemistry

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chemical equilibrium, liquids and their simple phase equilibria, the solutions of nonelectrolytes, and heterogenous equilibrium. The text is

recommended for college-level chemistry students, especially those who are in need of a textbook for the subject.