

Outlines of Chemistry; A Textbook for College Students (Paperback)



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(Prof. Esteban Wuckert)

OUTLINES OF CHEMISTRY; A TEXTBOOK FOR COLLEGE STUDENTS (PAPERBACK)



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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1920 edition. Excerpt: .This consists of an oil lamp having a tight-fitting chimney of wire gauze. When this lamp is lighted and taken into a mine where fire damp, methane CH_4 , is present, the flame is not communicated through the gauze to the explosive mixture, though to be sure the latter may get into the chimney through the gauze and burn there or cause small, harmless explosions. These serve to warn the miner of the presence of the dangerous gases. The safety lamp is consequently very useful; nevertheless, explosions do still occur in mines because currents of air arising from blasting operations may blow fine coal dust into the lamp and so enable the flame to communicate itself to the fire damp on the outside of the gauze. After such explosions have occurred, the carbon dioxide (called choke damp by the miners) formed is dangerous also, because it does not support respiration and so gives rise to suffocation. REVIEW QUESTIONS 1. What is the difference in composition and method of preparation of water gas and coal gas? What are the products of the coal gas industry? 2. What is a flame? Upon what does the illuminating power of a flame depend? What is meant by the term enriching a gas ? 3. Explain the principle of a Bunsen burner. 4. What determines the temperature of a flame? Give illustrations substantiating your answer. 5. Explain the principle of the Davy safety lamp. Why do explosions in mines occur in...



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