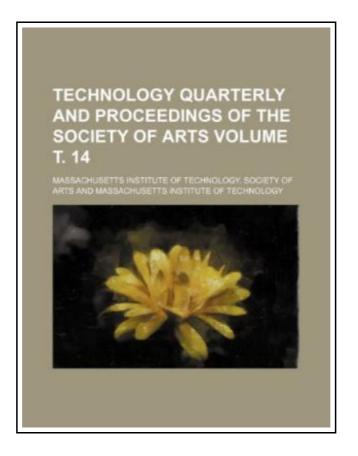
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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English. Brand New Book ***** Print on Demand *****. This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1901 Excerpt: together in the form of lumps or granules, and acting simultaneously when put in suitable media, giving rise to small amounts of alcohol and lactic acid. Closely related to the alcoholic fermentation is the acetic, or the oxidation of alcohol to acetic acid by bacteria, as in the process of vinegar-making. This process has been known and employed for a long time, but still it is only comparatively recently that accurate knowledge has been obtained as to the organisms involved, and even now many suppose that the process is a case of simple chemical oxidation Through the investigations of Hansen, and more recently of Lafar and Hehneberg, it has been shown that there is a group or race of bacteria which will develop most rapidly in dilute alcoholic solutions, and if the temperature be favorable, will oxidize them to acetic acid and water, with sometimes the formation of an intermediate product, aldehyde. The bacteria which bring about this transfer of oxygen from the air to the organic substances in solution present many interesting features aside from their remarkable chemical activity. Although seen to be in the form of short rods when in normal condition, soon after being put into a weak alcoholic liquid, as cider or beer, they develop rapidly into thick gelatinous surface layers, which are true zoogloea masses. These eventually sink to the bottom of the containing vessel, forming the mother of vinegar. With changes of temperature the bacteria undergo strange changes in shape,...

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