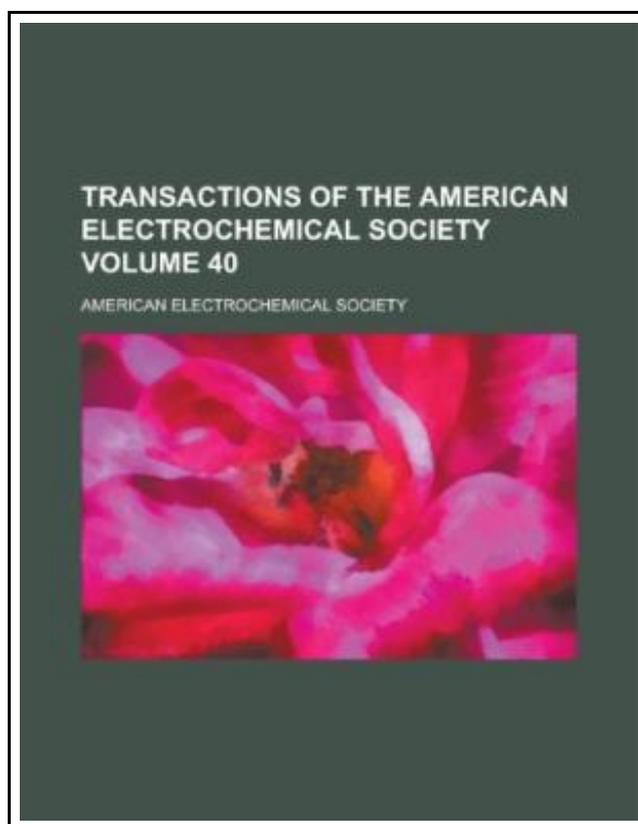


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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 144 pages. Dimensions: 9.7in. x 7.4in. x 0.3in. This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1922 edition. Excerpt: . . . seem somewhat extreme, but it is based on the following general premises: 1st. The fuel required for distillation and reduction of a ton of zinc in a modern retort plant will, when burned in an efficient modern power plant, generate sufficient electric energy to deposit a ton of zinc from sulphate solution. 2nd. The labor required for producing a ton of zinc electrolytically from a given concentrate will be no more than one-third the labor required by the furnace method. I am not prepared yet to go quite so far as Mr. Laist. Indeed, the conditions of electrolytic zinc extraction are so variable, according to the grade and quality of the ore, that any broad generalization might be dangerous, unless it were accompanied by many qualifications and reservations. However, I am willing to say under the most favorable conditions, as for example at Great Falls and Risdon, electrolytic zinc can be produced on terms so low as to permit it to meet any competition. I conceive the possibility, moreover, that in some places electrolytic extraction might be profitably substituted for the pyrometallurgical process as now practiced. On the other hand, I believe that the ordinary method of zinc distillation is capable of important improvements, and if the existing zinc distillers be pressed by threatened competition they will make such improvements. The electrolytic process, as practiced everywhere, comprises two steps, viz. , the hydrometallurgical and the electrometallurgical. In the hydrometallurgical division the operations are to...



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