WHAT METALS MEAN TO THE HUMAN RACE,

The bronze and iron age was an epoch in the advance of civilisation. There can be no doubt that the free use of, or privation from, metals is a question of life and death for any nation. When we take into account the important part that is played by metals in all modern communities, it is evident that without them civilisation would have been impossible. That astonishing scientific and industrial movement which this ninewhich existing generations are enjoying—all our mecution of sulphuric acid, and subsequently treating the pulse with availage solutions.

The space are hanical appliances, our manufactures, books and arts—ing the pulp with cyanide solutions. The success not one of all these benefits for man, in the absence of of this operation depends to a great extent on metals could apply applied to a great extent on the country of the cou metals, could ever have come into existence. Without getting rid of the copper solution and free acid, the help of metal, man would have been condemned to which must be accomplished by means of wash his powers have been increased a hundredfold, and his remaining acid by means of alkali.

empire over nature is being gradually extended, and will continue to extend so as to become almost supreme.

Some ores containing copper in the form of carbonate and silicate (chrysocolla) and fine gold has live in discomfort; but, aided by this irresistible lever, water, and, in some instances, by neutralizing the

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