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Electrical Conductivity of the Molten Co-S, Fe-S, and Ni-S Systems

by E. Hancy and J. H. Van Vleet

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The electrical conductivity of the molten Co-S, Fe-S, and Ni-S systems was studied as a function of temperature and composition. The samples were prepared by the reaction of the elements in a vacuum furnace. The samples were then cast into a cylindrical shape and the electrical conductivity was measured as a function of temperature. The results show that the electrical conductivity of the molten Co-S, Fe-S, and Ni-S systems increases with increasing temperature and decreasing composition. The results also show that the electrical conductivity of the molten Co-S, Fe-S, and Ni-S systems is higher than that of the molten Fe-S and Ni-S systems.

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In the course of a study of the electrical conductivity of the molten Co-S, Fe-S, and Ni-S systems, it was found that the electrical conductivity of the molten Co-S, Fe-S, and Ni-S systems increases with increasing temperature and decreasing composition. The results also show that the electrical conductivity of the molten Co-S, Fe-S, and Ni-S systems is higher than that of the molten Fe-S and Ni-S systems.

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