DISCHARGE CHARACTERISTICS OF A SOLID STATE CELL WITH CuCl:CuCNS ELECTROLYTE AND BI-METAL ELECTRODES

M.A.K.L. Dissanayake*, P.A.G. Dharmawardena**
O.A. Ileperuma**
*Dept. of Physics, **Dept. of Chemistry, University of Peradeniya.

Solid state cells based on copper ion conductors are promising as electrochemical power sources for electronic devices because of their low cost. A cell using CuCl as the electroluyte has a rather high internal resistance because of the poor ionic conductivity of this material at room temperature. We have observed that the internal resistance of such a cell can be reduced considerably by mixing CuCl with CuCNS. Study of discharge characteristics of a button type cell, Cu/Cucl: CuCNS/Mg has shown that it has a capacity of 5 mwh and an energy density of about 40 mwh/cm^3.

References

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