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
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The Interaction of the Dipole Moment of the Water Molecule with the Interface States of the Cuprous Oxide/Cupric Oxide Junction

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Abstract: An Au/CuO/Cu₂O/Cu sandwich structure has been obtained by growing successive Cu₂O and CuO layers on a Cu sheet. A gold metal contact was formed CuO side at pressure of 1×10^{-6} Torr. Current-voltage characteristics and capacitance of the system were seen to change over a great extent due to the presence of humidity. The effect of the humidity on Au/CuO/Cu₂O/Cu is explored through the effect of water's dipole moment.

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