



Recrystallization of pure copper investigated by calorimetry and microhardness

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The recrystallization of cold rolled copper has been investigated using both differential scanning calorimetry (DSC) and Vickers microhardness techniques. The activation energy of the recrystallization process has been determined by microhardness and by DSC under isochronal conditions. The DSC results have been analyzed using models developed by Kissinger, Ozawa and Boswell. In addition, the recrystallized fraction, as a function of temperature, has been determined from the DSC analysis and compared to that obtained by microhardness measurements.