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Study of the Physical Properties of Titanium Sheath in Tisheathed MgB2 Superconducting Wires CAD HOYT, JEFFREY P. DIEHL, HUI FANG, GAN LIANG, Sam Houston State University — To evaluate the possibility of using titanium(Ti)-sheathed MgB2 superconducting wires for future lightweight superconducting magnet applications, it is necessary to obtain information about the electrical, magnetic, and structural properties of the Ti sheath material. In this paper, we report the results from our recent electrical resistivity, magnetization, and crystal structure measurements on these Ti-sheath materials.

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