

## **PHYSICAL PROPERTY SHEETS IN THE PDF-4 DATABASE**

V. Bosnic and T. Blanton

International Centre for Diffraction Data, Newtown Square, PA 19073 USA

The International Centre for Diffraction Data Powder Diffraction File™ (PDF®) is the world's largest collection of diffraction data for phase identification. By itself, the PDF diffraction data is a powerful tool for the characterization of materials. To enhance the capability of the ICDD® databases, physical property sheets are being added to data entries allowing the analyst to probe further into understanding the behavior and functionality of materials. As a result of contributions from ICDD® members and external consultants, 4,564 entries in the PDF have physical property sheets covering the areas of battery materials, hydrogen-storage materials, ionic conductors, nanomaterials, polymers, solar materials, thermal expansion properties of perovskite materials for fuel cells, and thermoelectric materials. A summary of the physical property sheets activities at ICDD will be presented.