DISCRETE ELEMENT METHOD BASED SCALE – UP MODEL FOR

MATERIAL SYNTHESIS USING BALL MILLING

**by**

**Priya Radhi Santhanam**

**A Dissertation**

**Submitted to the Faculty of**

**New Jersey Institute of Technology**

**in Partial Fulfillment of the Requirements for the Degree of**

**Doctor of Philosophy in Chemical Engineering**

**Otto H. York Department of**

**Chemical and Materials Engineering**

**January 2014**