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PII: S0032-5910(18)30596-5

DOI: doi:10.1016/j.powtec.2018.07.097

Reference: PTEC 13579

To appear in: Powder Technology

Received date: 4 June 2018 Revised date: 19 July 2018 Accepted date: 29 July 2018

Please cite this article as: Jeffrey S. Marshall, Modeling and sensitivity analysis of particle impact with a wall with integrated damping mechanisms. Ptec (2018), doi:10.1016/j.powtec.2018.07.097

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Modeling and Sensitivity Analysis of Particle Impact with a Wall with Integrated Damping Mechanisms

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Keywords: Particle impact, restitution coefficient; damping force; sensitivity analysis

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