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**M. Yvonne Ou\*** (mou@math.udel.edu), Department of Mathematical Sciences, University of Delaware, Newark, DE 19716. *Two-parameter Integral Representation Formula for the Effective Elastic Moduli of Two-phase Composites.*

In this talk, we will present the integral representation formula for two-phase elastic composites and its implications. The numerical aspects of computation of effective properties of real-world composites such as cancellous bones will be discussed. We will also show the numerical results of the algorithm which we proposed recently. (Received August 25, 2011)