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Kevin K. Ferland* (kferland@bloomu.edu), Mathematics Department, Bloomsburg University, Bloomsburg, PA 17815. *Extending Toughness to Infinite Graphs.*

We define the toughness of infinite graphs by using a natural generalization of that for finite graphs. General results and specific examples are then considered. We then present some open problems, including existence problems for tough-sets and calculations of maximum possible toughness. (Received February 01, 2007)