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John R. Graef* (john-graef@utc.edu), Department of Mathematics, University of Tennessee at Chattanooga, 615 McCallie ave, Chattanooga, TN 37403-2598. *Boundary value inclusions involving Hadamard fractional derivatives.*

The existence of solutions to a boundary value inclusion involving a Hadamard type fractional derivative is established. The proof is based on Mönch's fixed point theorem and the Kuratowski measure of noncompactness. An example illustrating the results is also presented. (Received August 03, 2020)