

1135-C5-2163 **Paul D. Olson*** (pdo2@psu.edu), Penn State Erie , the Behrend College, School of Science, 4205 College Drive, Erie, PA 16563-0203. *Laplace Transforms vs. The Method of Undetermined Coefficients.*

In undergraduate applied differential equations courses (the first course in ODE's for some engineering majors) , we consider several methods of solving second order , linear , nonhomogeneous ODE's . After several years of teaching these courses , the results are in : most engineering majors prefer using Laplace Transforms over using the Method of Undetermined Coefficients . In this talk , we explore reasons why the engineering students prefer using Laplace Transforms . (Received September 25, 2017)