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## A MATLAB App for Decomposing the Even and Odd Parts of a Transfer Function

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In this paper, a MATLAB App program is presented that decomposes the numerator and denominator polynomials of transfer functions into their odd and even components. In control engineering, transfer functions are essential tools for modeling system dynamics, and decomposing these functions into their odd and even components is a key step in system analysis. The developed MATLAB App allows users to enter the numerator and denominator polynomials of transfer functions efficiently, automatically separating them into odd and even parts. This functionality enables researchers to examine system characteristics in more detail and perform essential analyses with ease. The MATLAB App is designed to reduce time and errors, making complex mathematical operations accessible through a user-friendly layout. This App aims to improve researchers' productivity and increase the efficiency of their analysis processes.

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