Abstract

This paper presents a new mixed method for reducing the large scale interval systems using the Mihailov Criterion and Cauer second form. The reduced order model of denominator is determined by using Mihailov Criterion and numerator coefficients are obtained by using Cauer second form. We show that the mixed method is simple and guarantees the stability of the
reduced model if the original system is stable. A numerical examples are illustrated and verified its stability.

Reference


Index Terms

Computer Science
Control Systems
Key words

- Mihailov Criterion
- Cauer second form
- Reduced order
- Stability
- Mixed method