CONSTRAINT OF THE SMOOTHNESS MATRIXVALUED FUNCTION AND HER FACTOR

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Let \( L(\lambda) = M(\lambda)(Z-\lambda I) \) is factorisation matrixvalued differentiable of the function \( L(\lambda) \), giving on the interval \([a,b]\) of the real axis \( \mathbb{R} \), where \( M(\lambda) \) is matrix-valued continued function and \( Z \) is constant matrix. Question is deciding about constraint of the smoothness functions \( L \) and \( M \).