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.