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On the Dynamics of Lamé Systems with Critical Vector Fields

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The asymptotic behavior of Lamé systems with frictional damping and uncoupled vector fields coordinates are well-known, see [1, 4, 5, 6, 7]. In the current presentation, it is addressed results on the dynamics for the Lamé system in elasticity with frictional damping and fully coupled vector fields under critical growth. More specifically, the Lamé problem will be addressed with a general coupled vector-valued nonlinearity under Sobolev-critical growth in 3-dimensional bounded domains according to [2], and then the exponential-type growth case in the 2-dimensional setting as given in [3].

References

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