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Non-Linear Wave Equation for the Vibration of a String Under Arbitrary Deformation and Under Non-Uniform Tension

The well-known one-dimensional wave equation for a vibrating string holds good only for slowly varying waves with the motion being confined in a plane. Furthermore, it is assumed that the strain is uniform and small. Here we generalize the wave equation for the vibration of a string under non-uniform tension and arbitrary initial deformation.

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