

Abstract

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Reduction of pendulations of the payloads in overhead cranes is carried out. The air resistance effect is taken into considerations. The reduction of oscillations based on the continuous unreeling method. The equations of motion of the overhead crane considered the system as a combination of a trolley and a pendulum. Different combinations of payload, hoisting cable lengths with different unreeling speeds and trolley mass are simulated. Results showed that significant reduction in pendulations was achieved.