

Conceptual Design of Small Mass Measuring Device in Micro-gravity

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The Small Mass Measuring Device(SMMD) is an instrument that can accurately determine the masses of solid, semi-solid, and liquid materials(including live specimens), in micro-gravity. This paper proposed three methods and measuring algorithms which are using Inertia Force and Standard Mass, using Frequency Shift Detecting of Vibrator, and using centrifugal force and Standard Mass. This paper introduce the diagram and measuring flow of proposed methods. We will present the detail methods and logical explanation at the next opportunity.