## 다목적 실용위성2호 운송콘테이너의 동특성분석

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## Analysis on the Dynamic Characteristics of KOMPSAT-2 Shipping Container

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Key Words: Satellite, Shipping Container, Modal Analysis, Finite Element Analysis, Shock Isolation.

Abstract: A satellite shipping container must afford the satellite a relatively benign thermal, vibration, and particle environment that is oblivious to the extreme temperatures, sand, dust, vibrations, and shock that can accompany the transportation. Korea Aerospace Research Institute has developed a new shipping container system that will be used to transport KOMPSAT-2(KOrea Multi-Purpose SATellite) from Tae-jon to launch site. To verify the dynamic characteristics, a Finite Element Analysis model and a 1/3 scaled mockup of the container were developed before the fabrication of real one. After fabrication of real shipping container, experimental modal analysis was performed to identify the dynamic characteristics. This paper presents a series of development process of KOMPSAT-2 shipping container.

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## Characteristics of High Speed Railway Noise

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Key Words: High Speed Railway Noise, Prediction

Abstract: Railway noise is one of the main causes of environmental impact. Whenever a new railway line is planned or a housing project near an existing railway is proposed, an estimate of the relevant levels is usually required. For this, it is necessary to quantify those parameters that affect the railway noise. Therefore we investigated the noise and vibration level which 107 high speed trains generated passing through the block of test railway track between Chunan and Chungwon.

This paper presents the status and characteristics of the high speed railway noise and an accurate prediction of the high speed railway noise.