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基于结构自由振动的模态参数直接频域识别

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DIRECT FREQUENCY-DOMAIN MODAL IDENTIFICATION BASED ON STRUCTURAL FREE VIBRATIONS

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摘要	参考文献	相关文章

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摘要 论证了结构自由振动的有限离散频谱可以作为结构频响函数而直接用频域法识别结构模态参数，实现了时域和频域识别技术的有机结合。仿真和实际结构的识别试验证明了这一论证的正确性。

关键词： 模态识别 动态建模 时域识别 频域识别

Abstract： It is demonstrated that the finite discrete Fourier transform of the structural free vibrations can be considered just as the frequency response functions of the structure and its vibration modal parameters can be identified from them with general frequency-domain identification methods. In this way comes into being an ideal combination of both time-domain and frequency-domain modal identification techniques. It is proved to be correct and very convenient by identification tests for both simulated and actual structures.

Keywords： modal ident ification dynamic modeling time - domain identificat ion   frequency- do mani ident ification

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