

Perilaku respon struktur akibat beban multi-eksitasi = Structure responses behaviour under multi-excitation loading

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Abstrak

Skripsi ini membahas perilaku respon struktur terhadap pembebanan dinamik multi-eksitasi. Penelitian ini dilakukan melalui permodelan struktur dengan menggunakan program analisis struktur SAP2000. Analisis yang dilakukan adalah mempelajari perilaku respon struktur portal tiga dimensi di bawah pengaruh pembebanan multi-eksitasi akibat getaran mesin. Parameter yang disimulasikan adalah posisi beban, arah eksitasi beban, frekuensi getar beban, massa mesin, dan properti isolator. Melalui penelitian ini, faktor utama beban multi-eksitasi dapat dipelajari sehingga nantinya dapat menjadi acuan dalam proses penyederhanaan analisis struktural terhadap beban multi-eksitasi.

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The focus of this study is the structure responses behaviour under multi-excitation loading. This research was conducted through structural modelling using SAP2000 structural analysis program. The analysis conducted was to learn about the behaviour of three-dimensional frame structure responses under multiexcitation loading due to vibrations from machineries. Parameters simulated in this research are loading position, loading direction, loading frequency, mass of the machine, and isolator properties. Through this research, main factors of multiexcitation loading can be investigated so they can be implemented as a reference in the structural analysis simplification under multi-excitation loading.