

## Analisis pondasi piled - raft dengan model pelat dan pegas = Piled-raft foundation analysis with plate and spring

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### Abstrak

Skripsi ini membahas perbandingan permodelan piled-raft 3D dalam tesis An Wang Three Dimensional Finite Element Analysis of Pile Groups and Piled-Rafts dengan model piled-raft 2D yang dibuat dengan SAP2000 10. Ini dilakukan dengan penyederhanakan model tiang dan tanah menjadi spring. Output SAP2000 10 berupa displacement maksimum, differential settlement, bending moment, dan distribusi beban dianalisis balik ke model An Wang. Hasil penelitian membuktikan model SAP2000 10 tidak mampu menandingi keakuratan model An Wang secara kuantitatif namun secara kualitatif memiliki sifat yang sama.

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<i>This essay discusses the comparison between piled-raft 3D modeling in An Wang's thesis 'Three Dimensional Finite Element Analysis of Pile Groups and Piled-Rafts' with piled-raft 2D modeling made with SAP2000 10. This is done by simplification the pile and soil into spring. SAP2000 10 output shows maximum displacement, differential settlement, bending moment, and load distribution which is analyzed back to the An Wang. Results of research prove SAP2000 10 model can't match the accuracy of the An Wang model quantitatively but its nature is same qualitatively.</i>