

BAB 6

Kesimpulan dan Saran

6.1 Kesimpulan

Pada penelitian ini digunakan metode optimasi menggunakan PSO dalam mendapatkan nilai koefisien kompresibilitas, koefisien kemiringan permeabilitas dan koefisien permeabilitas awal untuk mendapatkan nilai koefisien konsolidasi yang bervariasi selama waktu terjadinya proses konsolidasi.

Metode Optimasi digunakan untuk menggantikan metode grafis untuk menentukan parameter konsolidasi. Dengan metode Optimasi, parameter konsolidasi yang didapatkan bervariasi dibandingkan dengan metode Taylor dan Casagrande. Hasil back analisis menunjukkan bahwa parameter yang digunakan dari hasil optimasi lebih mendekati hasil laboratorium dibandingkan dengan metode Taylor dan Casagrande.

6.2 Saran

Saran dari penulis adalah penelitian ini membutuhkan data laboratorium yang banyak agar dapat memvalidasi hasil akhir pada simulasi. Penambahan pengujian ini agar dapat memastikan bahwa hasil metode ini dapat diterima pada segala jenis tanah.

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