## عنوان مقاله:

QUICK ESTIMATING OF MAXIMUM DRY UNIT WEIGHT AND OPTIMUM MOISTURE CONTENT FROM COMPACTION CURVE USING PEAK FUNCTIONS

# محل انتشار:

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#### خلاصه مقاله:

Compaction curves are widely used in civil engineering especially for road constructions, embankments, etc. Obtaining the precise amount of Optimum Moisture Content (OMC) that gives the Maximum Dry Unit weight dmax isvery important, where the desired soil strength can be achieved in addition to economic aspects. In this paper, three peak functions are used to obtain the OMC and dmax through curve fitting for the values obtained fromStandard Proctor Test. Another surface fitting was also used to model the Ohio's compaction curves that represent very large variation of compacted soil types. The results showed very good correlation between the valuesobtained from some published sample tests and the values obtained from curve fitting for both cases of single curve and multiple Ohio's curves. The easiness of obtaining OMC and dmax. From the results of curve fitting encourage users to utilize this .procedure, in addition to its accuracy

کلمات کلیدی: Compaction Curve, Optimum Moisture content, maximum dry density, Procter Test, Peak functions

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