عنوان مقاله:

Modelling of Soil-Structure Interaction of Integral Abutment Bridges in SAP

محل انتشار:

اولین کنفرانس ملی مهندسی عمران و توسعه پایدار ایران (سال: 1393)

تعداد صفحات اصل مقاله: 9

نویسندگان:

mohammad Hadi Alizade - *Assistant professor of civil Engineering , Roudehen Islamic Azad University, Iran*

Seyed Mahdi Peymaei Semnani - *Department of Civil Engineering, Roudehen Islamic Azad University, Iran*

خلاصه مقاله:

Integral bridges are gaining increased popularity because of both economicand fast construction associated with the omission of bearing supports andexpansion joints. However the main issue related to the analysis of this typeof structures is dealing with soil-structure interaction of the abutment wallsand the supporting piles.The main objective of this paper is to study the transverse displacements andstrains due to temperature load and different type of soil and becauseTemperature loading is not provided for , in some softwares like PLAXIS ,modeling the soil structure interaction in SAP software is needed.This paper reports on the development of experiment data from The GuthrieCounty Bridge, which is located just south of the Town of Panora , Iowa onRoute P28 where the highway crosses the Middle Raccoon River.

کلمات کلیدی:

Integral Abutment Bridges, Soil-structure Interactions , SAP , transverse displacements