

Article

Predictive Modeling and Experimental Analysis of Cyclic Shear Behavior in Sand–Fly Ash Mixtures

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Abstract: This study presents a comprehensive investigation into the cyclic shear behavior of sand–fly ash mixtures through experimental and data-driven modeling approaches. Cyclic direct shear tests were conducted on mixtures containing fly ash at 0%, 2.5%, 5%, 10%, 15%, and 20% by weight to examine the influence of fly ash content on the shear behavior under cyclic loading conditions. The tests were carried out under a constant stress of 100 kPa to simulate field-relevant stress conditions. Results revealed that the fly ash content initially reduces shear strength at lower additive contents, but shear strength increases and reaches a maximum at 20% fly ash content. The findings highlight the trade-offs in mechanical behavior associated with varying fly ash proportions. To enhance the understanding of cyclic shear behavior, a Nonlinear Autoregressive Model with External Input (NARX) model was employed. Using data from the loading cycles as input, the NARX model was trained to predict the final shear response under cyclic conditions. The model demonstrated exceptional predictive performance, achieving a coefficient of determination (R^2) of 0.99, showcasing its robustness in forecasting the cyclic shear performance based on the composition of the mixtures. The insights derived from this research underscore the potential of incorporating fly ash in sand mixtures for soil stabilization in geotechnical engineering. Furthermore, the integration of advanced machine learning techniques such as NARX models offers a powerful tool for predicting the behavior of soil mixtures, facilitating more effective and data-driven decision-making in geotechnical applications. Evidently, this study not only advances the understanding of cyclic shear behavior in fly ash–sand mixtures but also provides a framework for employing data-driven methodologies to address complex geotechnical challenges.

Keywords: cyclic shear behavior; sand; fly ash; NARX model

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1. Introduction

Fly ash is a fine, powdery material that is a byproduct of burning pulverized coal in power generating plants. When coal is burned in these plants to produce electricity, the non-combustible mineral impurities in the coal (i.e., clay, quartz, feldspar, and shale) fuse in high temperatures and form fine particles carried away by flue gasses. These particles solidify into tiny, spherical, glassy particles as they cool when released into the atmosphere. After being generated in power plants, the fly ash is captured by electrostatic precipitators or other pollution control devices before it is released into the atmosphere. Once collected, it is often stored in silos or transported for various uses such as in concrete production, as a component in cement, or for different areas of use. Actually, fly ash is predominantly used in construction, with the top three applications being concrete and related products

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