

## عنوان مقاله:

Effect of fibre type on mechanical parameters of cemented soils

## محل انتشار:

دومین کنفرانس بین المللی پیشرفت های اخیر در مهندسی، نوآوری و تکنولوژی (سال: 1402)

تعداد صفحات اصل مقاله: 9

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## خلاصه مقاله:

Soil-cement is a combination of Portland cement, soil and water that sticks together due to hydration of cement and compression of its components and creates a dense, durable compound which has low permeability and is resistant to erosion. Due to the fact that soil-cement materials are brittle, they do not show suitable performance under tensile load to failure. In order to compensate for this flaw, we have used three types of fibres to reinforce the materials which are: jute polypropylene and steel. These tests were conducted on three different gradations each with three fine contents with different mineral type. The results show that compressive, tensile and flexural strengths of soil-cement materials improve dramatically by adding fibres to the matrix

## کلمات کلیدی:

fibre, compressive strength, tensile strength, flexural strength

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1767071>

