
Introducing a Mathematical Model to Predict the quantities of cement material consumed by the construction industry in Syria

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Abstract

This research gives a quick view about cement industry in the construction market in Syria where the private sector began to invest in this industry to cover the increase the demand of cement. This increase was due to the Syrian economical opening to the external investment.

In this research, a mathematical model to manage the cement supply to construction market is developed. The model predicts the monthly and yearly consumption for the future period according to records taken through previous years. It uses statistical methods : Multivariable regression analysis, Time series, and Correlation theory. The historical information of monthly and yearly consumption are considered to prove the validity of the model. Recommendations for the future research are also given.

For the abstract in Arabic see pages (209-225).

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