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Study of the interactions between independent variables in the grade and recovery of phosphorus bearing minerals during flotation from a low- grade ore.

Often extracted from an ore with a grade ranging between 25 and 35%, phosphorus is an important element in fertilizers, medicines, selected chemical compounds, cleaning products, steels, animals'food and sensor devices. In addition to the physical magnetic and chemical concentration methods, direct concentration by flotation of phosphorus bearing minerals is employed. With an emphasis on the grade and recovery of phosphorus bearing minerals, this paper will discuss the interactions between flotation independent variables namely pH, time and reagent dosages. The contribution of their impact on the process responses will be articulated through the use of response surface model with outcomes on their sensitivity levels towards the response.

Apply for student award at which level:

None

Consent on use of personal information: Abstract Submission

Yes, I ACCEPT

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