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Abstract
Under the attack of low profit era, the production industry of aquatic feed is searching for its suitable formula, developing new products, and improvement of machine's capability. Meanwhile, improving product quality technicality is also a tactic to promote its competition. One might face the complexity of the process variables while producing aquatic feed. In order to obtain desirable product quality, it is usually depended on the experience of the operators. The research studies the production process of aquatic feed of a case company. It integrates regression analysis and grey decision method to provide a prediction model considering multiple response variables.
After collecting data and analysis, the study presents the regression models of the gravity, hardness, and moisture of the aquatic feed in addition to the required time for softening the aquatic feed. Grey decision method is utilized to find the best process parameters for the four response variables.
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