

عنوان مقاله:

Mathematical modeling with a stability approach in he fuzzy environment of closed-loop supply chainprogramming

محل انتشار:

کنفرانس بین المللی پژوهش های کاربردی در علوم انسانی، اقتصاد، مدیریت و حسابداری (سال: 1401)

تعداد صفحات اصل مقاله: 28

نویسنده:

Parisa Aghababaei Poor - PhD Student, Islamic Azad University, Central Tehran Branch, Tehran, Iran

خلاصه مقاله:

The sustainability approach in industry has been considered by supply chainresearchers in recent decades. This approach includes three dimensions:economic, environmental and social. On the other hand, production andrecycling planning in the supply chain of companies that have recycledproducts is of great importance. In recent years, closedloop supply chain isone of the new approaches that has been proposed by researchers with theaim of increasing the supply chain stability. However, the lack of optimal production and recycling planning based on the sustainability approach inindustries is seen in abundance. Therefore, the aim of the present study is tomodel the production planning of closed loop supply chain using linearmathematical programming of fuzzy multi-objective mixed integer. Theresearch approach in defining the goals of the model, based on the dimensions of sustainable development, includes: optimizing social, environmental and economic costs. Due to the uncertainty, some variableswere considered fuzzy. The research data was collected from a reversible supply chain of a company in the battery industry. The model was solved by Ciplex method in Gomez software. Also, sensitivity analysis of social andenvironmental parameters of the model were considered. The results indicatethe applicability of the model from the perspective of relevant .industryexperts

كلمات كليدى:

closed loop supply chain, sustainability approach, fuzzy, environment, optimization, social

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1590661

