Utilization of sequencing problem with late work criteria in operational level of supply chain: Linearization approach

The concept of supply chain management found its way in the production planning concept in the recent decade. This chain covers four main processes which included procurement of raw material (supply), production of products, distribution of the finished products to retailers and finally covering customer's demands. By considering the production process as medial link in supply chain it will be possible to reduce total cost of the chain in an outstanding amount. This cause production centers prefer to play a part in the supply chain alongside with other production centers rather than continue their activities in an isolated environment. In this paper, the integration of supply chain management and sequencing problem into one unit model is studied. This model covers three phases of supply chain that are supplier selection, production sequencing and covering customer's demands with the least tardiness. This model then is modified completely to a linearized model using different existing methods alongside a novel linearization technique which is presented for late work criteria

Keywords:

supply chain, sequencing, late work criteria, linearization

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