Development of Optimal SCM Solution and Interface of Production Planning in Chemical Plant

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In the past years, mass production in short time is important. In the condition that there are many kinds of products and material, it becomes key issue to exactly estimate sales, to make the best plan for the productions and to retain relative inventories. They have already performed diverse research about planning and scheduling. The formulations represent in a lot of papers and references. However, there are likely to be just a few applications. Because, operator who establish the planning could have hard time to studying and using optimization solvers although formulated solvers easily find solutions. Even though they do not see and touch the best formulated model which is made by an expert, writing input data and arranging the output data from the solution would give them much burden. This paper discusses an application of product planning system with convenient graphic user interface for data input and output as well as mathematical formulation. The research has a meaning to overcome the disadvantage of solver using Excel software which everyone uses conveniently.