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## **A decomposition framework for managing inventory and distribution of fluid products by an order-based-resupply methodology**

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### **Highlights**

- The distribution of fluid chemicals according the order-based-resupply methodology is described, modeled and formulated.
- A decomposition method based on column generation is developed to solve the problem.
- The method provides a number of shifts to satisfy the demand of several fluid products by customers taking into account inventory constraints on plants/hubs.
- Solutions to different examples, generated by using realistic data, are presented.

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