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Inventory decisions for a finite horizon problem with product substitution options and time varying demand

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**Highlights**

- A finite horizon inventory model with product substitution is developed.
- The demand for the two substitutable products is assumed to be time varying.
- The conditions of existence and uniqueness of the optimal solution is found.
- The order schedule for the two products that minimize the total cost is determined.
- Numerical examples along with sensitivity analysis are also presented.

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