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Articles

Modelling ramp-up curves to reflect learning: improving capacity planning in secondary pharmaceutical production

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Abstract

The experience gained during production ramp-up leads to an increase of the effective production capacity over time. However, full utilisation of production capacity is not always possible during ramp-up. In such cases, the experience gained and hence the available effective capacity are overestimated. We develop a new method, which

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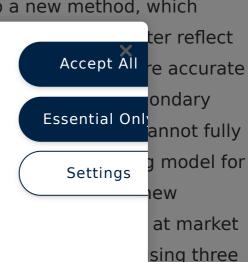
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empirically observed ramp-up curves to demonstrate its value as decision support tool.

We demonstrate the superiority of our volume-dependent method over the traditional time-dependent ramp-up functions and derive managerial insights into the selection of ramp-up function and the value of shortening ramp-ups.

Q Keywords: ramp-up learning experience time- vs. volume-dependent empirically observed curves mixed-integer planning model

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