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A bang-bang control As we will see later in §4.4.2, an optimal control ??(·) is given by ??(t) = ^ 1 if 0 ? t? t? 0 if t? <t? T for an appropriate switching time

0 ? t? ? T. In other words, we should reinvest all the output (and therefore consume nothing) up until time t?, and afterwards, we

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In optimal control theory, the variable? t is called the costate variable. Following the standard interpretation of Lagrange multipliers, at its optimal value? t

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is equal to the marginal value of relaxing the constraint. In this case, that means that ? t is equal to the marginal value of the state variable, x t. The costate variable plays a critical role in

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Optimal control - Wikipedia

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