



Various Adaptive Schemes in Delta Domain using Time Moments : Control System

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LAP Lambert Academic Publishing Jul 2012, 2012. Taschenbuch. Condition: Neu. This item is printed on demand - Print on Demand Neuware - The present work is concerned with controller design of linear discrete-time systems modeled in the delta domain. Time moment method, a tool so far used for model order reduction is applied to compute online time moments from the input-output response of the plant and reference model to estimate the controller parameters adaptively. Traditionally, discrete-time sampled data systems are represented using shift-operator parameterization. Such parameterizations are not suitable at fast sampling rates. An alternative parameterization using the so-called delta operator maintains a close correspondence to its continuous-time counterpart at fast sampling rate. Using delta operator parameterization it is possible to unify both discrete-time and continuous-time theory. The coefficients of the discrete-time transfer function are similar to the corresponding ones in continuous-time and it becomes easier to tune controller parameters for improved dynamic performance. At fast sampling limit, the delta operator model tends to the analog dynamic system model. 64 pp. Englisch.



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