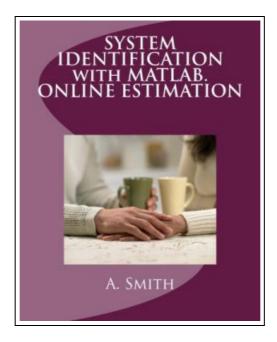
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Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\*\* Print on Demand \*\*\*\*\*\*\*.Online estimation algorithms estimate the parameters and states of a model when new data is available during the operation of the physical system. The System Identification Toolbox software uses linear, extended, and unscented Kalman filter, or particle filter algorithms for online state estimation. The toolbox uses recursive prediction error minimization algorithms for online parameter estimation. Consider a heating and cooling system that does not have prior information about the environment in which it operates. Suppose that this system must heat or cool a room to achieve a certain temperature in a given amount of time. To fulfill its objective, the system must obtain knowledge of the temperature and insulation characteristics of the room. You can estimate the insulation characteristics of the room while the system is online (operational). For this estimation, use the system effort as the input and the room temperature as the output. You can use the estimated model to improve system behavior. Online estimation is ideal for estimating small deviations in the parameter values of a system at a known operating point. Common applications of online estimation include: - Adaptive control - Estimate a plant model to modify the controller based on changes in the plant model. - Fault detection - Compare the online plant model with the idealized or reference plant model to detect a fault (anomaly) in the plant. - Soft sensing - Generate a measurement based on the estimated plant model, and use this measurement for feedback control or fault detection. - Verification of the experiment-data quality before starting offline estimation - Before using the measured data for offline estimation, perform online estimation for a few iterations. The online estimation provides a quick check of whether...

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