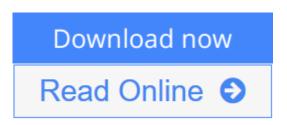


# Kalman Filter for Beginners: with MATLAB Examples

By Phil Kim



#### Kalman Filter for Beginners: with MATLAB Examples By Phil Kim

Dwarfs your fear towards complicated mathematical derivations and proofs. Experience Kalman filter with hands-on examples to grasp the essence. A book long awaited by anyone who could not dare to put their first step into Kalman filter. The author presents Kalman filter and other useful filters without complicated mathematical derivation and proof but with hands-on examples in MATLAB that will guide you step-by-step. The book starts with recursive filter and basics of Kalman filter, and gradually expands to application for nonlinear systems through extended and unscented Kalman filters. Also, some topics on frequency analysis including complementary filter are covered. Each chapter is balanced with theoretical background for absolute beginners and practical MATLAB examples to experience the principles explained. Once grabbing the book, you will notice it is not fearful but even enjoyable to learn Kalman filter.

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#### About the Author

Phil Kim received all the degrees (BS, MS, and PhD) in Aerospace Engineering from Seoul National University. After his education, he worked at Korea Aerospace Research Institute as a Senior Researcher. There, his main task was to develop autonomous flight algorithm and onboard software for unmanned aerial vehicle. An on-screen keyboard program named 'Clickey' developed by him during his period in PhD program served as a bridge to bring the author currently being a Senior Research Officer at National Rehabilitation Research Institute of Korea.

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