



## Rigid Body Dynamics For Beginners: Euler angles & Quaternions

By Phil Kim

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Has anyone experienced difficulty and confusion in understanding what the Euler angles, quaternions, and direction cosine matrices are, and furthermore, about the relationships among them? This book is for those who had struggled to figure out what all the aforementioned concepts are, and also provides a practical example that could be easily followed with MATLAB.

In addition, some surface of linear motions will also be touched so that in the end, a set of equations of motion that describe the motion of a rigid body in three-dimensional space could be constructed. Following step by step, the reader will be gradually immersed into the joy of learning and applying basic attitude dynamics.

The book will be good for those who are already familiar in the field by helping them reorganize the concepts and knowledge they have learned before.

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### Editorial Review

#### 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 'Clicky' 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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