



## Modern Missile Guidance

By Rafael Yanushevsky

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Written by an expert with more than 30 years of experience, Modern Missile Guidance contains new analytical results, obtained by the author, that can be used for analysis and design of missile guidance and control systems. This book covers not just new methods nor is it merely a compilation of older methods, although it includes both. The book discusses, in a logical progression, with its clear elucidation of the guidance laws, the entire field from missile dynamics to modeling and testing missile guidance and control systems.

In contrast to existing books that discuss very simple and often unrealistic guidance system models, this book presents missile guidance models that describe more precisely the dynamics of the missile flight control system, making analytical results more effective in practice. The analysis of missile guidance system models in the time-domain and in the frequency-domain allows the generation of different guidance laws that supplement each other.

Taking modern, rigorous approach that leads to improved performance in missile guidance applications, the book examines new guidance laws, and corresponding algorithms for generating and testing these laws, and includes effective new software programs developed by the author. The author provides an innovative presentation of the theoretical aspects of modern missile guidance that quite possibly cannot be found in any other book. It delineates new ideas that, once crystallized, will significantly improve missile systems performance.

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### Editorial Review

#### Review

It is surprising that many papers on guidance law design use only simple missile models. Dr Yanushevsky's book is different in that it aims to treat guidance just like any other control problem. ... Overall the book provides a valuable alternative view of missile guidance loop design.

?Dr D.H. Vorley, in *The Aeronautical Journal*, December 2008

#### About the Author

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