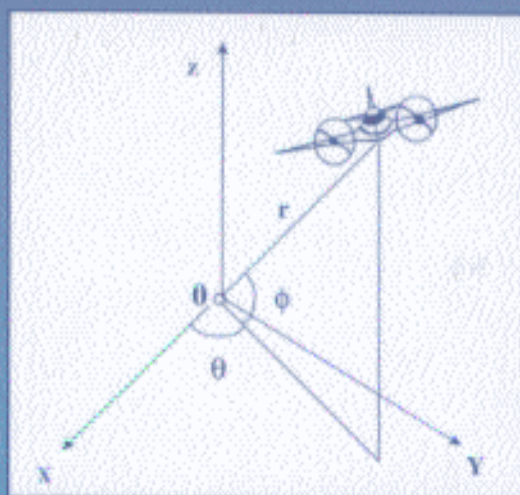


Kalman Filtering Techniques for Radar Tracking



K. V. Ramachandra

Contents

<i>Preface</i>	v
<i>Acknowledgments</i>	viii
1. Kalman Filter	1
2. Discrete-Time One-Dimensional Tracking Filters	9
3. Discrete-Time Two-Dimensional Tracking Filters	45
4. Discrete-Time Three-Dimensional Tracking Filters	61
5. Continuous-Time One-Dimensional Tracking Filters with Position Measurements	75
6. Continuous-Discrete-Time One-Dimensional Tracking Filters with Position Measurements	87
7. Continuous-Discrete-Time One-Dimensional Tracking Filters with Position and Rate Measurements	117
8. Continuous-Time One-Dimensional Kalman Tracking Filters with Position and Velocity Measurements	167
9. Maneuvering Target Tracking	191
10. Tracking a Maneuvering Target in Clutter	209
11. Introduction to Multitarget Tracking	227
<i>Index</i>	231