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May 1977

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(14) **REPORT DOCUMENTATION PAGE**

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1. REPORT NUMBER: NPS-62Te77071-Vol-1
2. GOVT ACCESSION NO.
3. RECIPIENT'S CATALOG NUMBER

(6) 4. TITLE (and Subtitle): Advances in Passive Target Tracking, Volume 1

5. TYPE OF REPORT & PERIOD COVERED
6. PERFORMING ORG. REPORT NUMBER

7. AUTHOR(s): (10) H. Titus, editor

8. CONTRACT OR GRANT NUMBER(s): NR 274-289; N00014-77-WR-70083

9. PERFORMING ORGANIZATION NAME AND ADDRESS: Naval Postgraduate School, Monterey, Ca

10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS: 65152N

11. CONTROLLING OFFICE NAME AND ADDRESS: ONR, Code 431, Arlington, VA 22217

(11) 12. REPORT DATE: June 1977

13. NUMBER OF PAGES

14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office): ONR, Code 431, Arlington, VA 22217

(12) 318 p.

15. SECURITY CLASS. (of this report): Unclass

15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT: "Distribution limited to U.S. Government only; Test and Evaluation, May 1978. Other requests for this document must be referred to, Office of Naval Research, [redacted] Code 431."

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18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number): Passive Tracking Extended Kalman Filtering

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Passive target tracking is defined as the ability to reconstruct, the location of an underwater target in both space and time. The target is accomplished using various combinations of amplitude, frequency, bearing, and delay-time information available in the received acoustic signal.

Various software designs have been computerized for automatic

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1. REPORT NUMBER: NPS-62Ts77071

2. GOVT ACCESSION NO.

3. RECIPIENT'S CATALOG NUMBER

4. TITLE (and Subtitle): Advances in Passive Target Tracking (U), Volume 2

6

5. TYPE OF REPORT & PERIOD COVERED

6. PERFORMING ORG. REPORT NUMBER

7. AUTHOR(s): H. Titus, editor

10

8. CONTRACT OR GRANT NUMBER(s): NR 274-289; N00014-77-WR70083

9. PERFORMING ORGANIZATION NAME AND ADDRESS: Naval Postgraduate School, Monterey, Ca.

10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS: 65152N

11. CONTROLLING OFFICE NAME AND ADDRESS: ONR, Code 431, Arlington, VA 22217

12. REPORT DATE: May 1977

13. NUMBER OF PAGES: 216

14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office): ONR, Code 431, Arlington, VA 22217

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