

chapter and section coordinates at the top of each page. The style of the book is clear and all details are given. All in all, the monograph is an important addition to the literature on topological semigroups and their harmonic analysis; in due time we will be in a better position to judge which parts of this material will most affect and stimulate further research.

## REFERENCES

1. J. F. Berglund and K. H. Hofmann, *Compact semitopological semigroups and weakly almost periodic functions*, Lecture Notes in Math., vol. 42, Springer-Verlag, Berlin and New York, 1967. MR 36 #6531.
2. Mary Katherine Bennett, *Review of "Distributive Lattices by R. Balbes and P. Dwinger,"* Bull. Amer. Math. Soc. **82** (1976), 246–249.
3. R. Burckel, *Weakly almost periodic functions on semigroups*, Gordon and Breach, New York, 1970. MR 41 #8562.
4. H. Carruth, Hildebrant and R. J. Koch, *Topological semigroups* (to appear).
5. K. H. Hofmann, *Topological semigroups, history, theory, applications*, Jber. Deutsch. Math. Verein. **78** (1976), 9–59.
6. ———, *The duality of compact semigroups and  $C^*$ -bigebras*, Lecture Notes in Math., vol. 129, Springer-Verlag, Berlin and New York, 1970.
7. K. H. Hofmann, M. Mislove and A. Stralka, *The Pontryagin duality of compact 0-dimensional semilattices and its applications*, Lecture Notes in Math., vol. 396, Springer-Verlag, Berlin and New York, 1974. MR 50 #7398.
8. K. H. Hofmann and P. S. Mostert, *Elements of compact semigroups*, Merrill, Columbus, 1966; errata in *Semigroup Forum* **5** (1973), 285–322. MR 35 #285; **47** #8757.
9. J. D. Lawson, *Additional remarks on continuity in semitopological semigroups*, *Semigroup Forum* **12** (1976), 265–280.
10. A. B. Paalman-de Miranda, *Topological semigroups*, Math. Centre Tracts, 11, Math. Centrum, Amsterdam, 1964. MR 31 #1663.
11. N. Rothman and M. W. Schuh, *Laplace transforms on vanishing algebras*, *Semigroup Forum* **8** (1974), 189–214.
12. J. L. Taylor, *Measure algebras*, C.B.M.S. Regional Conf. Ser. in Math., no. 16, Amer. Math. Soc., Providence, R.I., 1973.
13. J. H. Williamson, *Harmonic analysis on semigroups*, *J. London Math. Soc.* **42** (1967), 1–41. MR 34 #8101.

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*Pursuit games*, by Otomar Hájek, Mathematics in Science and Engineering, vol. 120, Academic Press, New York, 1975, xii + 266 pp., \$10.50.

From the beginnings of the differential calculus, through the calculus of variations to modern control theory, dynamical and optimization problems have always provided a stimulus for mathematical activity. A two person differential game is a generalization of a control system, and can be considered as a control system with two competing controllers or players. (The theory of differential games with more than two controllers is in an even more elementary state, basic problems being the possibilities of coalitions, how to model information flow, and all the other problems of von Neumann's discrete game theory, now in a dynamic setting.) Conversely, control theory can be considered as a special case of a differential game with just one player.

Pioneering work on differential games was undertaken by Rufus Isaacs in the 1950's, though his work was not generally available until his book *Differential games* (J. Wiley and Sons, New York, London), was published in