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- [2] S. N. Biswas and T. S. Santhanam, "Coherent states of para-Bose oscillators", J. Austral. Math. Soc. Ser. B 22 (1980) 210–217.
- [3] F. H. Busse, "On the mean field problem of thermal convection", Max-Planck Inst. Phys. Astrophys. Rep. MPI-PAE/Astro 31 (1970) 1–31.
- [4] E. M. Casling, "Slender planing surfaces", Ph. D. Thesis, University of Adelaide, 1978.
- [5] R. H. Day, "Adaptive processes and economic theory", in *Adaptive economic models* (eds. R. H. Day and T. Groves), (Academic Press, New York, 1975) 1–38.
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