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1 Introduction

A barrier option is activated or extinguished when a specified asset price, index, or rates reaches a specified level. Some models of barrier option assume continuous monitoring of the barrier, others specify fixed times for monitoring of the barrier (typically daily closing). Fusai-Abrahams-Sgarra[1] gives an analytical solution for pricing discrete barrier options in the Black-Scholes framework and reduce the valuation problem to a Wiener-Hopf equation that can be solved analytically. See [there](#).

References

- [1] G.FUSAI D.I.ABRAHAM C.SGARRA. An exact analytical solution for discrete barrier options. *Working Paper SEMEQ Department University Piemonte Orientale Italy*, 2004. [1](#)