

Year: 2011

Vol.: 79

Fasc.: 3-4

Title: Discrepancy bounds for hybrid sequences involving matrix-method pseudo-random vectors

Author(s): Harald Niederreiter

We establish the first nontrivial deterministic discrepancy bounds for sequences that are obtained by “mixing” either Halton sequences or Kronecker sequences with sequences of matrix-method pseudorandom vectors.

Address:

Harald Niederreiter
Johann Radon Institute for Computational
and Applied Mathematics
Austrian Academy of Sciences
Altenbergerstr. 69, A-4040 Linz
Austria

and

Department of Mathematics and Statistics
King Fahd University of Petroleum & Minerals
P.O. Box 5046, Dhahran 31261
Saudi Arabia