MR1629680 (99c:34123) 34F05 (34D20 60H10)

Hatvani, László (H-SZEG-B); **Stachó, László** (H-SZEG-B)

On small solutions of second order differential equations with random coefficients. (English summary)

Equadiff 9 (Brno, 1997).
Arch. Math. (Brno) **34** (1998), *no. 1,* 119–126.

Summary: "We consider the equation $x'' + a^2(t)x = 0,\ a(t) := a_k$ if $t_{k-1} \le t < t_k$, for $k = 1, 2, \cdots$, where $\{a_k\}$ is a given increasing sequence of positive numbers, and $\{t_k\}$ is chosen at random so that $\{t_k - t_{k-1}\}$ are totally independent random variables uniformly distributed on the interval $[0, 1]$. We determine the probability of the event that all solutions of the equation tend to zero as $t \to \infty$."

{For the entire collection see MR1629636 (99a:00025)}