

**Stochastic equations in a Hilbert space
with a fractional Brownian motion
Bozenna Pasik-Duncan (Lawrence, Kansas)**

Various types of stochastic equations are considered, such as, linear, semilinear, and bilinear. These equations are driven by a cylindrical fractional Brownian motion. Explicit solutions are given that are weak or mild solutions. Results for both existence and uniqueness of the solutions are given. Some examples are provided of stochastic partial differential equations that can be described by stochastic equations in a Hilbert space for which the assumptions for the weak and the mild solutions are satisfied.