



Код: 10984

Dongsheng Li

## Ultrasonic Guided Wave Monitoring and Evaluation for Steel Rebar Corrosion Damage

Берлин, Германия, 2012 год

1 стр; формат: 23,5 x 16 см

In order to test the corrosion damage of steel rebar, the propagation properties of ultrasonic guided waves (UGW) are explored. Numerical methods are employed to calculate the disperse curves. Optimal excitation signal and frequency are selected. According to the objects tested in steel rebar experiments, stress wave propagation in different conditions is simulated using finite software of analysis. The result of simulating of passive film rupture process in corrosion by two-dimensional Fourier transform demonstrated the effect of waveguide dispersion. At last, the method of using two-dimensional Fourier transform to identify damage is given.

Доклад. Конференция по мониторингу технического состояния гражданских сооружений (CSHM-4), «Системы мониторинга технического состояния сооружений, обеспечивающие продление срока службы сооружений». Ноябрь, 2012. Берлин. Германия.

**Ключевые слова:**

**Содержание**

Abstract