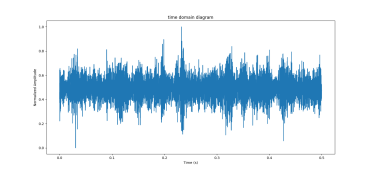
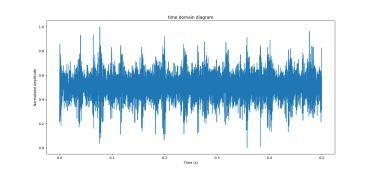
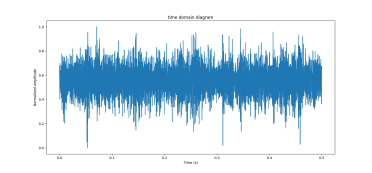
**0.4A\_1500rpm 20480 channel\_3**

**传感器安装至第二轴**

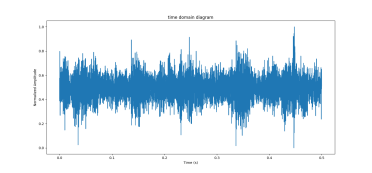
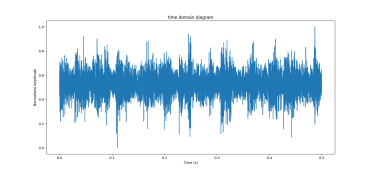
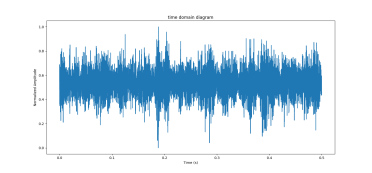
**传动比 i = 90/36 = 2.5 当二轴齿轮转动一圈，输入轴(电机)转动 2.5圈，转动一圈耗时1500/60 \* 2.5 = 0.1s**

**采样长度为0.1s \* 20480Hz = 2048**

**Time domain**

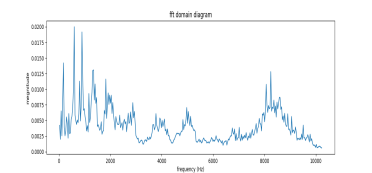
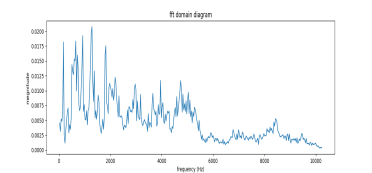
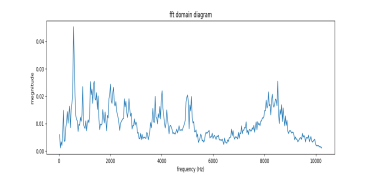


broken\_half\_tooth broken\_tooth eccentric\_gear

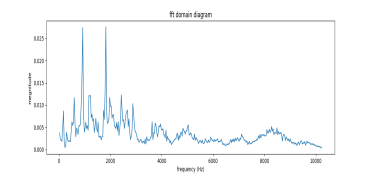
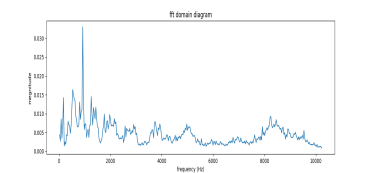
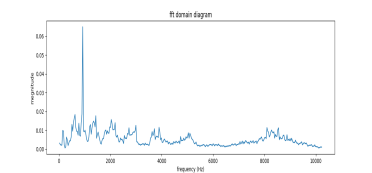


crack\_gear normal surface\_wear

**Frequency domain (FFT)**

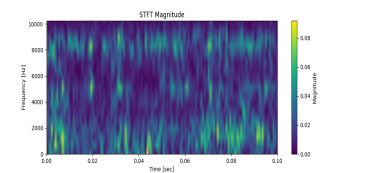
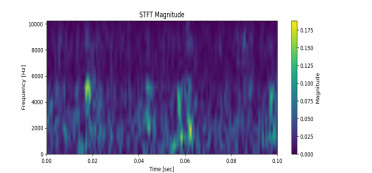
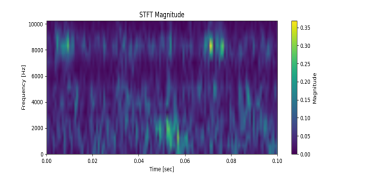
****

broken\_half\_tooth broken\_tooth eccentric\_gear

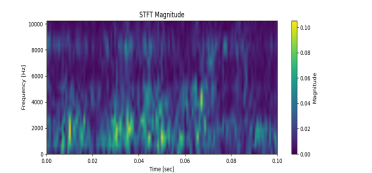
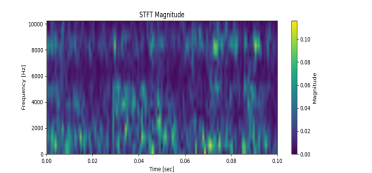
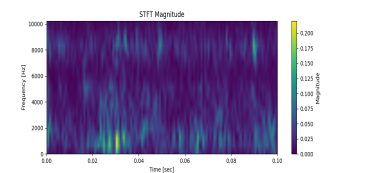
****

crack\_gear normal surface\_wear

**STFT 2D**

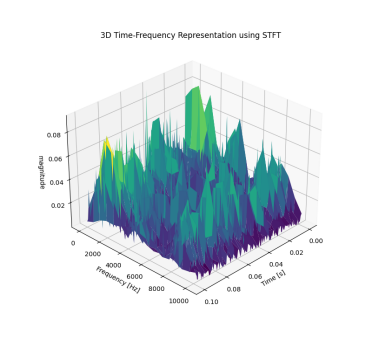
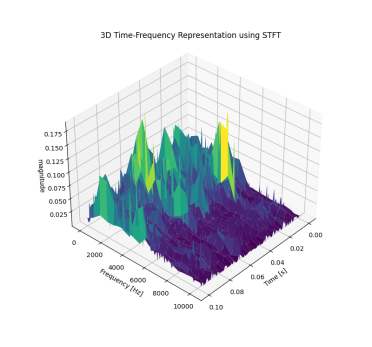
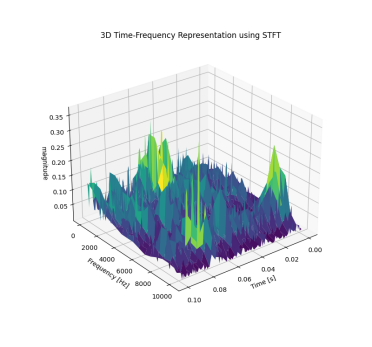
****

broken\_half\_tooth broken\_tooth eccentric\_gear

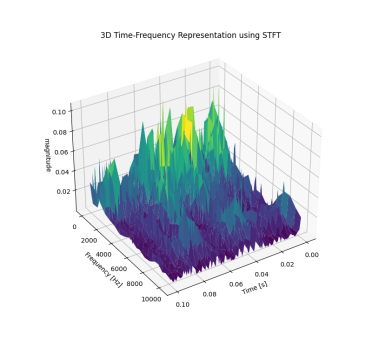
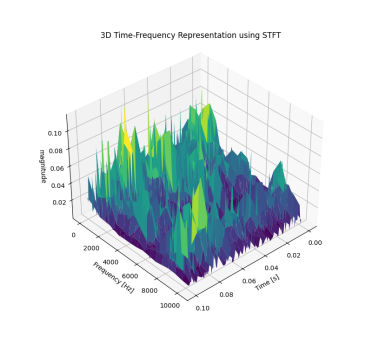
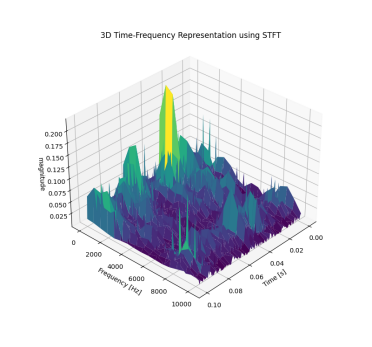
****

crack\_gear normal surface\_wear

**STFT 3D**

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broken\_half\_tooth broken\_tooth eccentric\_gear

****

crack\_gear normal surface\_wear

原始，未归一化 6min

