

How to...

accelerometry

xyzPlux Accelerometer: Micro-Electro-Mechanical System (MEMS) that measures static and dynamic accelerations.

PLACEMENT

PREPARE

Choose your tridimensional referential according to the accelerometer referential.

CONNECT

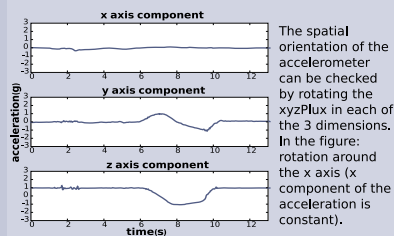
Mount the accelerometer on the body whose acceleration you want to measure.
e.g.: an object, a part of the human body.

ACQUIRE

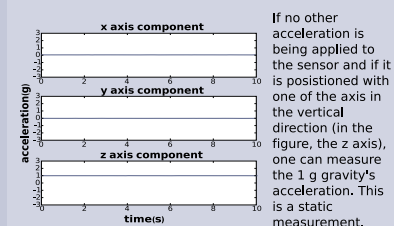
Turn the acquisition device on. Move the instrumented body and observe its variation of acceleration!

1,2,3 TESTING

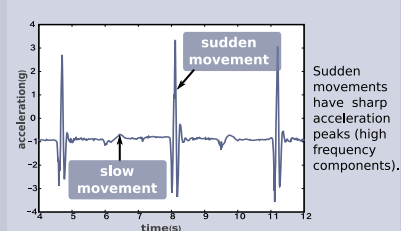
3D rotations



gravity

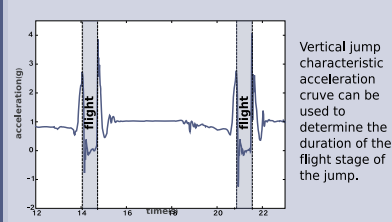


sudden movement

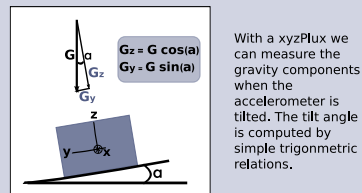


APPLICATIONS

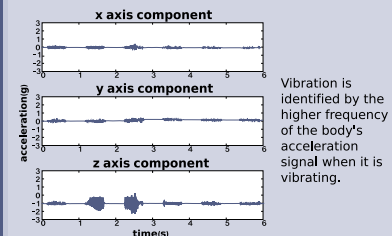
jump detector



tilt detector

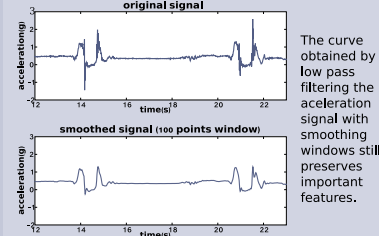


vibration sensor

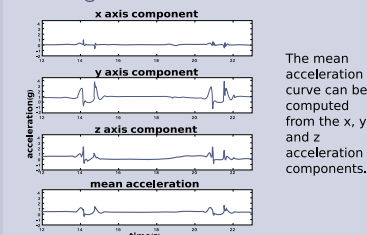


PROCESSING

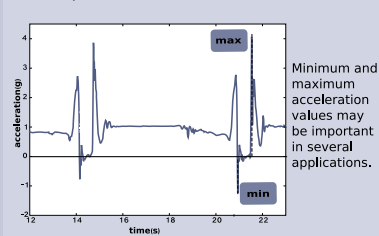
smoothing



average acceleration

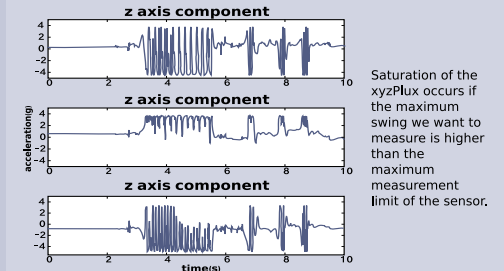


max / min acceleration



TROUBLESHOOTING

saturation



xyzPlux referential spatial orientation

