

Self Assessment: Making Sense of Gait Ground Reaction Force Data

What are Ground Reaction Forces?

How can ground reaction forces during walking can be measured and recorded?

When does raw data (such as ground reaction forces) from sensors or instruments require processing?

What is the objective of processing raw data from sensors or other data sources?

How can data be shared in a meaningful way?

Explain the tradeoff between noise reduction and signal fidelity when filtering data.

What Matlab command may be used to identify peaks in data?

How is the Matlab "Brush Data" tool used?

How can systematic error in data be detected?

How can known systematic error be compensated?

How can repeating features in periodic data be identified?

Why is it useful to parse periodic data and overlay all repetitions with one another?