

Q3PULSE software for predicting unsteady turbocharger turbine performance

The Q3PULSE software is used for predicting unsteady turbocharger turbine performance, particularly under pulsating flow conditions. It builds a low order model of a turbine which combines a quasi-3D model for a volute and multiple meanline models for a rotor. This model strikes a good balance between accuracy and complexity. It provides a quick, robust and accurate prediction of unsteady turbine performance under pulsating flows. It is therefore a good research and design tool which allows turbine designers to accommodate the pulsating flow effect into the preliminary turbine design.

The software is compatible with Linux and Windows. Academic and commercial licensing is available; please get in contact for more information.

Category

Physical Sciences

Authors

Tengo Cao

Learn more

