2BarG – A program to process split Hopkinson (Kolsky) bar test results

Tzvi Gershanik greggersh1409@gmail.com
Itay Levin itaylevin2704@gmail.com
Daniel Rittel merittel@technion.ac.il
Materials Mechanics Center, Faculty of Mechanical Engineering, Technion – Israel Institute of Technology, Haifa 3200003, Israel

Abstract

2BarG is a program that analyses Split Hopkinson (Kolsky) Pressure Bar experiments. It is Python-based and features several libraries that make processing fast, simple, and efficient with minimal operator's intervention. The program performs automatic identification of the incident, reflected and transmitted signals from the recorded experimental raw signals. The software reduces the data into stresses, strains, and velocities following the mandatory wave dispersion correction. A user-friendly and intuitive graphic interface allows for straightforward data reduction for various experimental specimens (standard or customized) and testing configurations (tension, compression, and shear).

Permanent link to code/repository used of this code version	https://github.com/CraZMe/2BarG.git
Permanent link to executables of this version	https://rittel.group/downloads