Package ‘CMAPSS’

September 9, 2021

Date 2021-09-03
Title Commercial Modular Aero-Propulsion System Simulation Data Set
Version 0.1.1
Description
Contains the Commercial Modular Aero-Propulsion System Simulation (C-MAPSS) data set.
License GPL-3
Imports Rdpack
RdMacros Rdpack
Depends R (>= 4.0.0)
Encoding UTF-8
LazyData true
LazyDataCompression bzip2
RoxygenNote 7.1.1
NeedsCompilation yes
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Repository CRAN
Date/Publication 2021-09-09 08:50:02 UTC

R topics documented:

CMAPSS ................................................................. 2

Index 3
CMAPSS data set

Description
Commercial Modular Aero-Propulsion System Simulation (C-MAPSS) Data Set.

Usage

data("CMAPSS")

Format
A list of the following 2 objects:

- train a list of class "hhsmm.data" as the train dataset
- test a list of class "hhsmm.data" as the test dataset
- subsets a matrix containing the number of units in each subset of the CMAPSS data set (FD001-FD004) for the train and test datasets

Details
The turbofan engine data is from the Prognostic Center of Excellence (PCoE) of NASA Ames Research Center, which is simulated by the Commercial Modular Aero-Propulsion System Simulation (C-MAPSS). Only 14 out of 21 variables, by a method mentioned by Li, et al. (2019) are selected. The train and test lists are of class "hhsmm.data", which is used in the hhsmm package.

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References


Examples

data(CMAPSS)
str(CMAPSS$train)
str(CMAPSS$test)
CMAPSS$subsets
Index

* datasets
  CMAPSS, 2

CMAPSS, 2