FractionalFactoralDesign.R

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library(FrF2)

## Warning: package 'FrF2' was built under R version 4.0.3

## Loading required package: DoE.base

## Warning: package 'DoE.base' was built under R version 4.0.3

## Loading required package: grid

## Loading required package: conf.design

## Warning: package 'conf.design' was built under R version 4.0.3

## Registered S3 method overwritten by 'DoE.base':  
## method from   
## factorize.factor conf.design

##   
## Attaching package: 'DoE.base'

## The following objects are masked from 'package:stats':  
##   
## aov, lm

## The following object is masked from 'package:graphics':  
##   
## plot.design

## The following object is masked from 'package:base':  
##   
## lengths

# We need to create subsets of 10 different factors in 16 Fictitous houses.  
  
FrF2(16,10)

## A B C D E F G H J K  
## 1 -1 -1 1 1 1 -1 -1 -1 -1 1  
## 2 1 -1 1 -1 -1 1 -1 -1 1 1  
## 3 1 -1 -1 -1 -1 -1 1 -1 -1 -1  
## 4 -1 1 1 1 -1 -1 1 -1 1 -1  
## 5 -1 1 1 -1 -1 -1 1 1 -1 1  
## 6 -1 -1 -1 -1 1 1 1 1 -1 1  
## 7 1 1 1 -1 1 1 1 -1 -1 -1  
## 8 1 -1 1 1 -1 1 -1 1 -1 -1  
## 9 1 1 -1 -1 1 -1 -1 -1 1 1  
## 10 -1 -1 1 -1 1 -1 -1 1 1 -1  
## 11 -1 1 -1 -1 -1 1 -1 1 1 -1  
## 12 1 -1 -1 1 -1 -1 1 1 1 1  
## 13 1 1 1 1 1 1 1 1 1 1  
## 14 1 1 -1 1 1 -1 -1 1 -1 -1  
## 15 -1 -1 -1 1 1 1 1 -1 1 -1  
## 16 -1 1 -1 1 -1 1 -1 -1 -1 1  
## class=design, type= FrF2