

Filtered at 1000Hz  
 channels to read out  
 spectrum1.out  
 spectrum2.out  
 spectrum3.out  
 spectrum4.out  
 spectrum5.out  
 spectrum6.out  
 spectrum7.out  
 spectrum8.out

Refresh

Control file: spectrum1.out  
 File type: ASCII Number of Channels: 8 File size: 2048

Load Control File Output Filter: MatlabCustomFlow.out

Rate on change: 40000 Hz Ready



Matrix

- Acceleration
- Angular
- Force
- Position
- Temperature
- Pressure
- Flow
- Rate of Change
- Cell Counting
- Energy Dissipation
- Temperature

Visual Matrix

- Phase Diagram
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Legend

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# Interface Calculus

**David A. Smith**



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the basic substructuring idea is to consider a substructure a part of the model separately and eliminate all but the degrees of freedom needed to connect this part to the rest of the model so that the substructure appears in the model as a substructure a collection of finite elements whose response is defined by the stiffness and mass o

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limitations of structural elements membrane elements cannot be used to overlay a substructure that consists of second order

three dimensional brick elements of type c3d20 r h if the substructure will be used as a slave surface normally abaqus standard automatically converts c3d20 r h brick elements to elements with midface nodes c3d27 r h because this

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in abaqus standard the response within a substructure once it has been reduced to a substructure is considered to be a linear perturbation about the state of the substructure at the time it is made into a substructure

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set this parameter equal to yes default if the substructure eigenproblem needs to be solved during substructure generation in abaqus substructure eigenvectors can be used to define substructure modal damping for a given substructure abaqus standard will evaluate the stiffness associated with frequency dependent springs and dashpots at

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the purpose of this example is to provide basic demonstration and verification of the substructuring capabilities in abaqus problem description the example is a frame consisting of two columns connected by a beam figure 1 16 1 1 the columns and the beam are each modeled with 10 elements of type b21 once a substructure has been

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