

# Working with SIMPACK 8.5 and Beyond

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# Working with SIMPACK 8.5 and Beyond

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## Overview

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- SIMPACK 8.5 in Numbers
- Key Features of SIMPACK 8.5
- SIMPACK 8.5 Hands On
- SIMPACK whats next

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## SIMPACK 8.5 in Numbers

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- Strong Focus on Useability
- Over 400 Development Items
  - Customer Driven
  - Technology driven
  - Bug Fixes
- Development Start April 2000

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## SIMPACK 8.5 in Numbers

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- Beta Phase since August 2001
- More than 400 Test Cases grouped in
  - Functionality
  - Solver
  - Customer Models
- First Release December 2002

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## Key Features for SIMPACK 8.5

- Freely Definable Unit System
- User Routines
- Substitution Variables
- Function Expressions
- Modelling Element Library expansions

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## Key Features for SIMPACK 8.5

- Track Module
- Linearization / Modal Analysis
- Static Equilibrium
- Data Import/Export with Altair Motion View
- Documentation
- Packaging / Dimensions

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## SIMPACK 8.5 Hands On Part I

- File Open
- Treeview Selections
- Icons / Right Mouse Button
- Context Sensitive Parameter Lists
- Parametrization / Substitution Variables
- Input Functions / Input Function Arrays

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## SIMPACK 8.5 Hands On Part I

- New Elements
- Joint States Dependency Setting
- Units
- Function Expressions
- Animation
- Data Export to Motion View

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## SIMPACK 8.5 Hands On Part II

- Linearization / Modal Analysis
- Static Equilibrium

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## SIMPACK whats Next

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- Immediate Developments
- Strategic Focus

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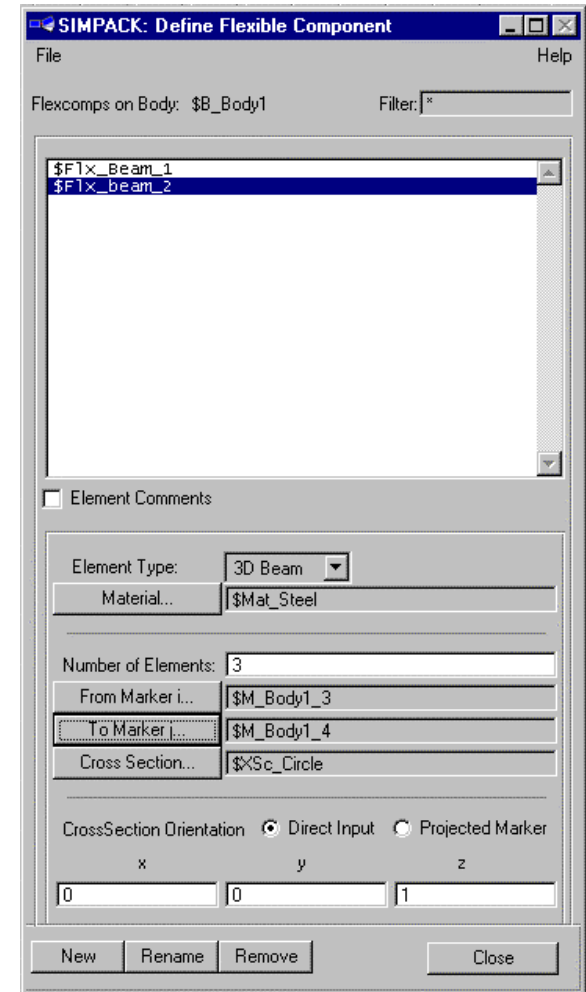
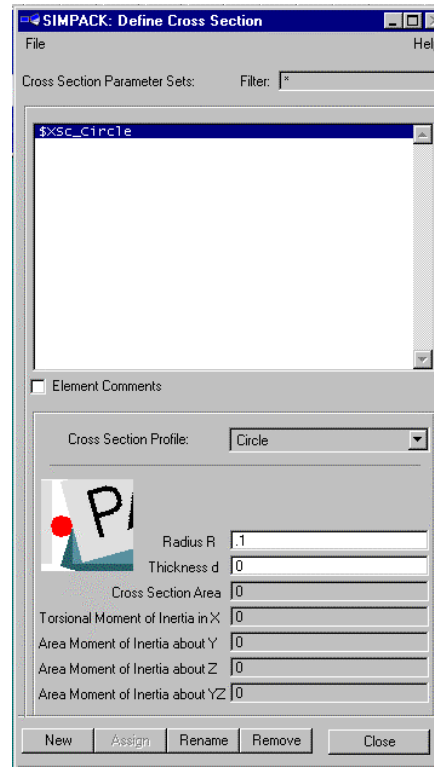
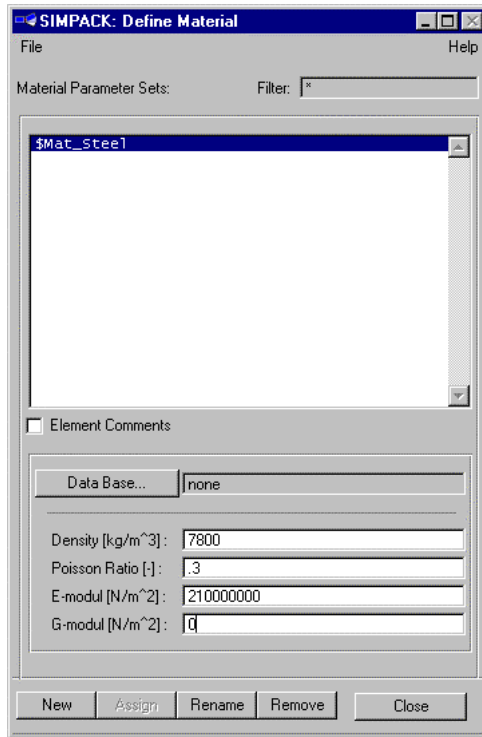
## SIMPACK whats Next: Immediate

- SIMBEAM
- MatSIM
- Modal Plot
- Tyres

## SIMPACK whats Next: SIMBEAM I

- Define Beam Structured FE Models directly in SIMPACK
- Solve Beam Structured FE Models directly in SIMPACK
- Leverage powerfull Parametrization for FE Models
- Perform Parameter Variations including FE Models

## SIMPACT whats Next: SIMBEAM II

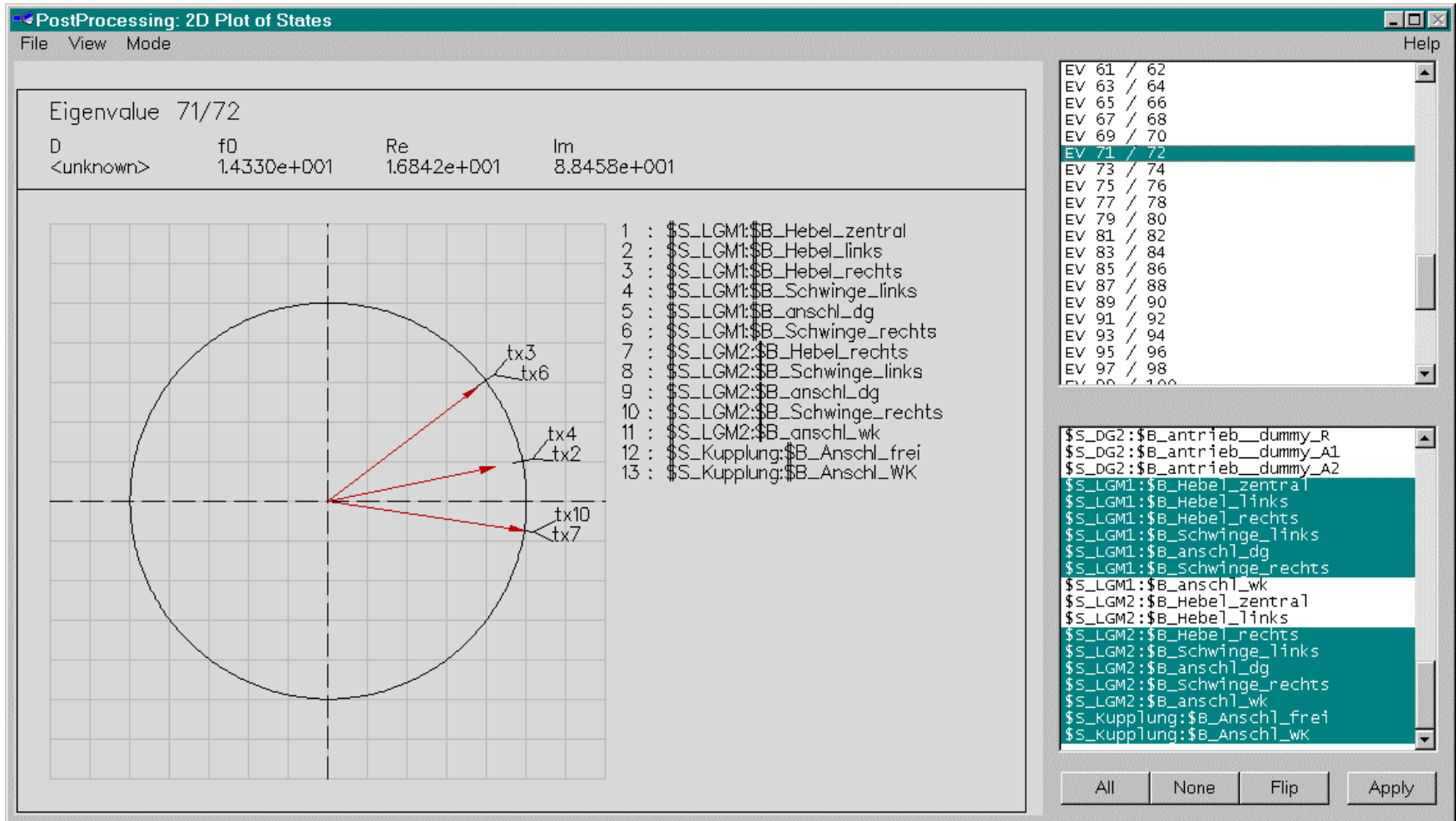


## SIMPACT whats Next: Modal Plot I

- Plot Absolute Modal Results
- Select Modes of Interest
- Select Bodies of Interest
- View Phase and Magnitude Comparison Plot

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## SIMPACK whats Next: Modal Plot II



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## SIMPACK whats Next: Strategic

- Realtime
- Solver 100 times faster
- Flexible Bodies
- Database / Substructures / Parametrization
- GUI and 3D Graphics