

SUGAR 3.0 and M&MEMS

David Bindel

UC Berkeley, EECS

SUGAR web

cfm/Class/Java/teleweb/

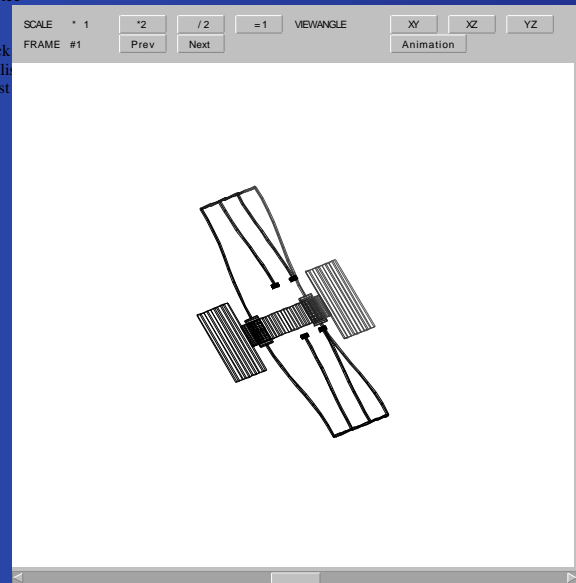
M&MEMS - A Millennium-based MEMS Simulator

- > File Manager
- > Turn Help On
- > Change Password
- > Admin
- > About
- > Logout

- tang.net
- > Display Device
 - > Simulations
 - > Edit Netlist
 - > Syntax Check
 - > Rename Netlist
 - > Delete Netlist

Modal Simulation Results in Java Viewer

Frame	Contents
1.	Structure with Frequency 128651.92
2.	Original Structure



© 2001 The Regents of the University of California. All rights reserved.
Direct M&MEMS/SUGAR questions, comments, and bug reports to:

Web service history

- Began as a class project in Fall 2000
- Went online at the end of Summer 2001
- Used for EE245 during Fall 2001 semester
- Currently offline: Millennium was “upgraded” (so was SUGAR).

Pros, cons, and lessons

- Pro: Only need a web browser with Java
- Pro: Fixes can be applied rapidly
- Con: Less flexibility than Matlab environment
- Con: Too many failure points in initial version
- Con: Poor response time in initial version
- Con: Failures difficult to interpret

SUGAR 3.0

- SUGAR 2.0: Matlab core, C add-ons
- SUGAR 3.0: C core, Matlab interfaces
- Release target: End of Feb / early March
- Web service using 3.0 should be more robust
- Can use SUGAR 3.0 even without Matlab