INTERNSHIP

TEGRAT

PAVIATH INTEGRATED SOLUTION

ME EXPRESSIONS

INTERNSHIP MATHEMATICAL TECHNOLOGY

Paviath <u>ONLINE</u>

MATHEMATIS

• ENGINEERING • POLYTECH • SCIENCE STUDENTS

The Next Generation of Mechanical Engineering Software

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INVERSE DYNAMICS

Mechanical Expressions is a symbolic mechanics program. Create a model, specify the geometry using symbolic constraints, add velocities, masses and force elements, and then extract mathematical expressions for output velocities, accelerations and forces. Copy expressions for input into a mathematics system like Mathematica, or copy them as Tex, MathML, or computer source code (in 9 languages). Or, create an HTML5/Javascript app, allowing you to communicate your design intent as an interactive, single-file web page that you can email to your colleagues or post on your web site. You'll quickly discover that Mechanical Expressions is truly a new breed of software.

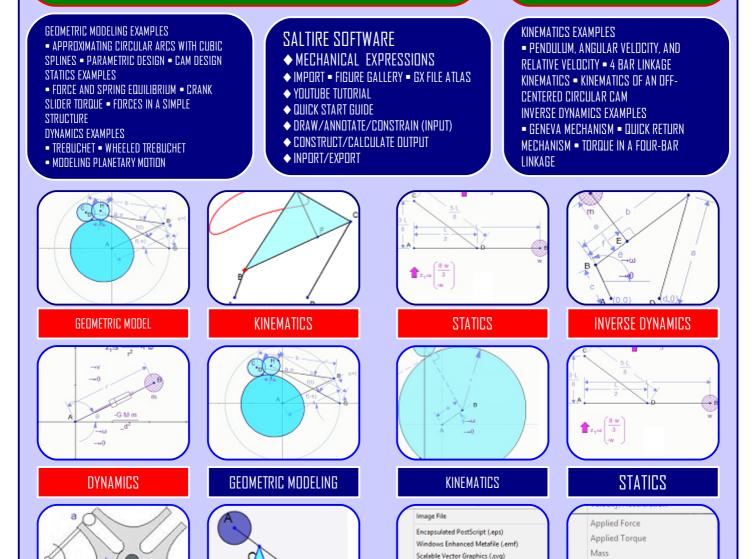
Explore Mechanical Expressions Mechanical Expressions can model a broad array of situations pertinent to physicists and engineers. In this section, we've compiled fifteen examples that showcase Mechanical Expressions' capabilities.

Moment

Spring-Damper-Actuator

ME INPUT

Velocity/Acceleration



info@paviathintegratedsolution.com -www.paviathintegratedsolution.com www.paviathjobportal.com

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DYNAMICS

HTML (.html)

HTML5 / JavaScript App

OS X Dashboard Widget

ME EXPORT