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I'm in the structural design area, rather than mechanical, but the requirements for design tools would be similar. I use a couple of FEA programs (Strand7 and in in-house program), then for everything else I use spreadsheets (mostly Excel, but a few Lotus 123 which still do the job they were designed for).

Mechanical engineering and Excel - -Engineering ...

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Mechanical Engineering - DSpace@MIT: Home

MechaniCalc is a suite of web-based calculators intended to assist in the design and analysis tasks of a mechanical engineer. These calculators are focused on machine design and structural analysis, and they perform analysis with a level of detail and comprehensiveness that would be expected in

industry while being intuitive and accessible.

MechaniCalc: Quick & Intuitive Calculations for Mechanical ...

Mechanical engineering calculation package includes solutions for gear, belt and chain drives, springs, beam, shaft, bolt connection, shaft connection, tolerances and many others. The calculations are compatible with many types of 2D and 3D CAD systems (AutoCAD, AutoCAD LT, IntelliCAD, TurboCAD, Autodesk Inventor, SolidWorks) and support both Imperial and Metric units and are processed ...

MITCalc - Mechanical, Industrial and Technical ...

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Calculation Tool for Engineering - Theseus

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Excel Spreadsheet Design for Engineering Calculations on ...

CheCalc. Chemical engineering calculations to assist process, plant operation and maintenance engineers.

CheCalc

MATLAB. MATLAB is the programming language/environment of choice among mechanical engineers. MATLAB is essential for doing more complex numerical analysis where simple math doesn't cut it and a programming solution is required. MATLAB is especially well suited for calculations with matrices and vectors.

Software for Mechanical Engineers | MechaniCalc

My program of choice to flesh-out calculations is Microsoft Excel. Windows and the Office Suite are

ubiquitous, so Excel is always available and everyone can use and read it. That said, with so ...

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