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requency Analyzer

Snap-Master's™ Frequency Analyzer opens up a new world of opportunity to convert your data into useful information. Frequency Analyzer is a flexible software-based solution that is adaptable to your evolving test requirements and has the versatility to replace expensive, dedicated instruments. Features you expect, like magnitude or phase plots and forward or inverse FFTs, are complemented with advanced features like octave band analysis, power spectra, and more than 20 other functions.

WE SPEAK YOUR LANGUAGE

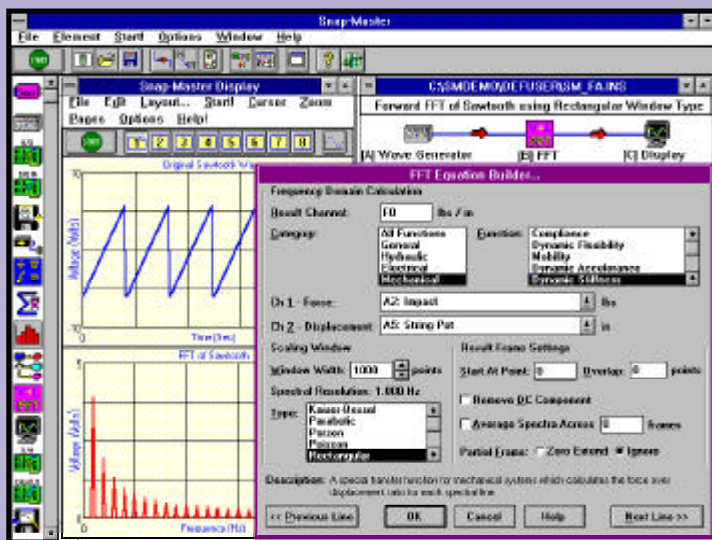
Unlike other frequency analysis solutions that force you to use their nomenclature, Snap-Master's Frequency Analyzer uses recognizable function names. For example, Impedance, Transfer Function, and Dynamic Stiffness are all related calculations, but apply to different engineering disciplines. Frequency Analyzer provides you with all of these choices, making it easy to tailor the functions to your application. And, with over 23 different window types and numerous data length choices (over 300 different lengths up to 16,384 points), Snap-Master manages your raw data to give you more accurate results.

EXTENSIVE DATA IMPORT AND EXPORT

Snap-Master includes extensive comma separated variable (CSV) file support. It's simple to import data files created with other packages, and export calculated results for additional processing. Of course, our efficient standard binary file formats are also supported. A more advanced way to bring data in to Snap-Master is to transfer it from another program in real-time using Dynamic Data Exchange (DDE), or add Snap-Master's Data Acquisition module to simultaneously acquire and analyze the data. Whether your demands are for real-time analysis or post process analysis, Snap-Master accommodates your needs.

EASY EQUATION BUILDING

With the Snap-Master Frequency Analyzer, you never have to write a formula. Use the point & click Equation Builder to help you quickly create new calculations - even the function arguments are explained in clear, application-specific terms. Once your equations are created, view them in an easy-to-use table so all of your settings are visible. Get the answers you are looking for in less time with Snap-Master's Frequency Analyzer.



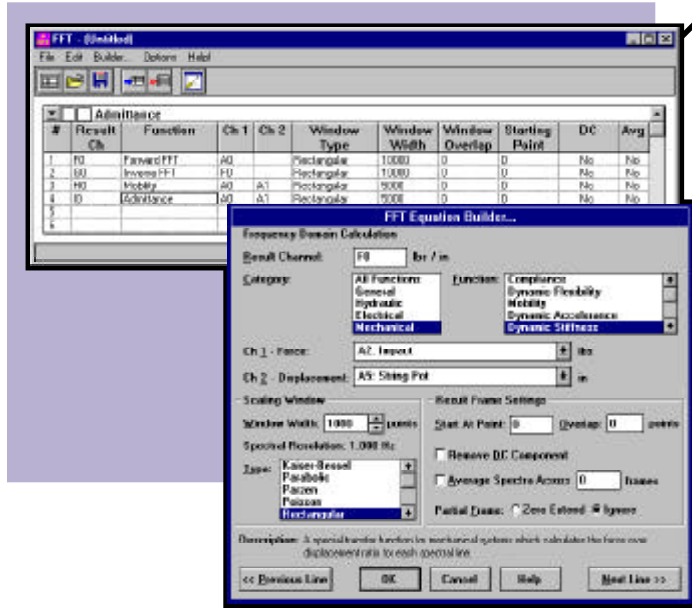
“Snap-Master’s data analysis is fast, powerful and unusually versatile. It’s ideal for vibration and acoustics analysis.”

- Jon Wilson, The Dynamic Consultant

Real-World Frequency Analysis Solutions

FASTER RESULTS

Analyzing test data in the frequency domain can be daunting, so Snap-Master easily adapts frequency analysis to your area of expertise. It's designed for busy engineers and scientists, like yourself, enabling you to get your job done more quickly. So, leave the text books alone and start crunching your data immediately!



1

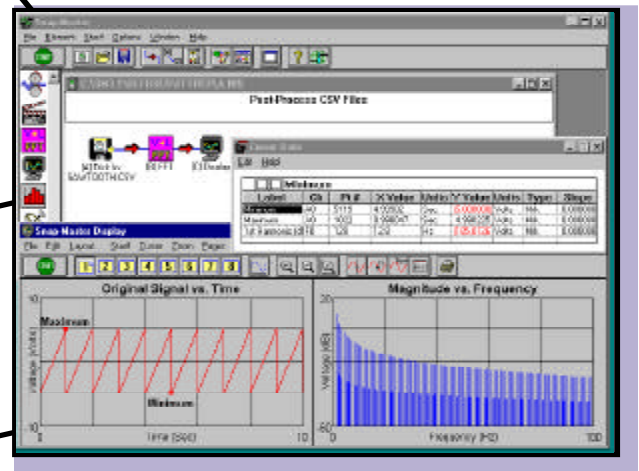
Setting up frequency domain calculations is easy. This table shows all of your "equations" in an organized format. Use for real-time analysis or as a post process.

2

Use the point-and-click Equation Builder to set up the calculation all at once. Just fill in the blanks - no guessing! All of the frequency domain functions are listed in the Equation Builder using names you recognize.

3

Analyze data in real-time using DDE or Snap-Master's Data Acquisition module. Or, import data files (including CSV files) for post processing.



4

The histogram element performs octave, 1/3 octave and other band analysis calculations. These calculations identify sound characteristics, aiding in the elimination of undesirable noise.

5

Powerful display options let you plot magnitude or phase results, zoom in on data, annotate specific points with text markers, and read absolute or relative data values using data cursors.

Frequency Analyzer Features

- Over 20 functions including Forward and Inverse FFTs, Auto/Cross Power Spectrum and Spectral Density, Transfer Function, Coherence, Impedance, Band Analysis, Admittance, Accelerance, Compliance, Dynamic Flexibility/Stiffness, Mobility, Transmissibility, etc.
- Display: plots (Y-T, Y-X, Semilog, Bode), histogram
- File I/O: (CSV, ASCII, Binary formats)
- Arbitrary and Function Waveform Generation (11 functions: sine, square, sawtooth, triangle, cosine, ramp, etc.)
- DDE In and Out
 "Unusually flexible DDE is a hallmark of Snap-Master for Windows..."
 - *Personal Engineering and Instrumentation News*

System Requirements

- Microsoft® Windows™ XP, 2000, NT, Me, 98
- Only 5 MB Hard Disk Space
- Pentium II or Higher



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