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Some More Info on FFT

The FFT algortihm is by itself rather a complex algorithm and without going into all details a few key factors one should kno

1) The FFT algorithm is a rather cpu intensive procedure. The "delay" in creating the results is almost solely caused by the "Live Execution" of the FFT code. The less performant your computer is, the more time it will take

2) The FFT algorithm does require a specific formula number of 2th data points. For this reason the "simulation time" exist out 4,096 seconds that represent 4096 data points (=2^M2) and remains always co

The "standard" FFT algorithm does work in theory only correct on a full linear system. Highly Non-Linear Systems do require Non-Linear FFT algorithms which are very complex. Since the shock absorber can be both highly non-linear (insee-point) as a-symmetric (gunce/rebound ratio) this does usually creates a few problems for the linear FFT procedure. Dynature does allow the user to choose out of two "Demping" Options:

a) EASELINE SETTING Averaging both Jource & Rebound Damping over a (Haff) Sine Oscillation - This is a commonly used approach which "assumes" that the damping of the vehicle remains "constant" for the oscillation and is calculated as the average of the Jource and Rebound Damping for that particular operating point. The advantage is that the Transfer Function is more "smooth" and stable, and starts always at 0 Hz with a value of 1. Although this app should be in theory less accurate than option b) the experience and comparison with real world measurements and data do show that there is a very good correlation.

Use the full NON-Linear & A-Symmetric Damper Data as in "real life". This will however lead to a less "smooth" Transfer Function which will potentially also be more difficult to understand. A very high rebound damping will for instance "pull" the car down during the frequency sweep. Changes in JounceRebound Damping can influence the Transfer Function significantly. It is highly recommended to use the Exponential Decay Road Inp In real life the effects will be less damatic since in particular suspension compliances and for instance rubber topmounts will "smoothen out" these non-linearities. This option is recommended to be used only by experts for in depth analysis.

4) Similar to point 3) the Trie must always be in contact with the road as a "Lifting-Off" would introduce a rather severe non-linearity in the system. In fact in the 4 Poster Ride Model the Tire is always connected to the road and "pull the car back" in situations where it would normally lift off. This is purely done to allow robust FFT post-processing

HALF SINE / RAMP INPUT TEST (TIME DOMAIN):

RELEASE 8.0 NEW FEATURE: added allowing to simulate Kerbing Events.

In the Half Sine / Ramp Input Test, the movements of wheel and body can be analyzed over time after passing a ramp (smooth 1/2 sinusoidal resp. smooth 1/4 sinusoidal). The amplitude of the Half Sine or the height of the Ramp can be modified (either up or down). Length is also adjustable. By the Defined Length of the Half Sine / Ramp and by adjusting the Vehicle Speed, the time for passing the obtained and as such the Frequency Content of the events are being changed. The calculated "Frequency Content" is useful for relating the results of this test to the 4 Poster Sweep Sine test procedure results. The calculated is also particularity useful (change) it is a MUST (or finding the best componentiarie/into Weher Sunce 6 refocund damping, keeping the overall damping constant whils looking at different vehicle speeds (= excitation frequency) and represents the "real word" test for any tuning made with the 4-Poster Sweep Sine Test Procedure.

RELEASE 8.0 NEW FEATURE:

the Time Domain Ride Model in RELEADE 8.0 is more sophisticated than the Frequency Response Model. In particular the tire can loose contact with the road.

TUNING CONTROL CENTRE

n the Frequency Domain and Time Domain Calculation Sections one can conveniently find the "Tuning Control Centre". Here the User can scale Front & Rear Spring Rates and Jouroe & Rebound Damper Rates, of changing one single parameter or several ones at once can instaintly can be reviewed. Typically we would recomment to use one Vehicle Worksheet as "Scaling Sheet" and use the other Vehicle Worksheet ence Setting Sheet. In the Comparison Sheet the main differences between both Stupts can be evaluated and used for further funging steps. In between to The effect of as a Referen

	I second								
00000000000000000	Fr. Jounce Damping Scaling Factor	0.652		Rr. Jounce Damping Scaling Factor	1.110	000000 0 0 000000			
SPRING & DAMPER	Fr. Rebound Damping Scaling Factor	1.326	CALCOLATE / F9	Rr. Rebound Damping Scaling Factor	0.842	SPRING & DAMPER			
SCALING FACTORS	Fr. Spring Rate So	caling Factor 1.	000 Rr.	Spring Rate Scaling Factor 1.000		SCALING FACTORS			
The Soring & Damper Scaling Factors multiply the spring rates and the measured damper data by the selected factor - for jounce & rehound separately									

General Notes on the Workbook:

telault calculation setting of the workbook is set to automatic recalculation. Since hower both the real time resolution of the differential equations for the Sweep Sine & Ramp Sine Test as the FFT post processing procedure uite opui intensive the sheets can be slow in updating (depending on the hardware of the computer). One can set the default calculation mode to manual calculation on the sheets, but in order to update the results use their press key F9 (default Except) or use the Calculation Bitton on the sheets. The def

RESULTS

The "Lower Part" of the Vehicle 1 & Vehicle 2 Worksheets provide all the classical metrics and characteristics that are being used by the automotive engineers. Natural frequencies, Pecentage Critical Damping and other interesting metrics like Bounce and Pitch Centers. These are commonly used terms which can be found in literature and are therefor not further explained. There is a presentation on the FAQ page about them.

The Focus of the Tool is on the "Upper Part" of the Worksheets which are providing the results for FREQUENCY DOMAIN with the 4 Poster Frequency Sweep and below the scaling dashboard all results for the TIME DOMAIN with Ramo and Hall Sine functions.

The dominant graph for the 4 Poster Test is the Frequency Transfer Function. The graph does basically show 'how much' the Body or the Wheel of the vehicle reacts to a defined road input at a Range of Frequencies. At 0 Hz this function starts at 1 and typically shows 'peaks' near the Natural (Heave and Pitch) Frequencies of Sprung and Unsprung masses. Below some are examples for 'good' Transfer Functions

EXAMPLES FOR "GOOD" TARGET TRANSFER FUNCTIONS:



If Front Body FFT, Rear body FFT and Centre of Gravity FFT transfer function are very similar it does mean that the Car Body moves in vertical direction from Front to Rear Axle in a very similar way. This is good for comfort and if both a have also similar FFT plots they move similarly which should be good for grip. The "sportier" a car becomes - in effect the higher the Spring and Damping Rates become - the lower become the Peak Wheel FFT Values (right red cricles) at Wheel Hop Natural Frequency. They to become however more pronounced at Body Natural Frequency, the to the fact that the system becomes more coupled". The more the FFT Function of the Wheel Sort Biolow the Body the more the system is "Coupled". An Oscillation System existing out of 2 Springs (Suspension & Tire) is Fully De-Coupled wheel on specific Characteristics of the Frequency Transfer Function.

Example Results Explanation

The First important Graph of the 4 Poster Test is the Frequency Transfer Function



d] Opnamic Wheel Load Indicator 0 - 25 Hz: This metric does indicate how close the Wheel Transfer Function remains close to the Value '1' in the Frequency Range from 0 - 25 Hz. This metric can be used as a first indication for the general amount of grip of the tires in the range from 0 - 25 Hz. In the RELEASE 8.0 various additional metrics have been developed to explore in greater detail Grip Performance.



	STEP 1	START WITH CLASSIC	SETUP: DEFINE T	ARGET RIDE FI	REQUENCIES IN LINE V	ITH TYPE OF CAR - EN	ITER ALL DATA	ON THE LEFT SIDE OF THE SHE	EETS	
		Road Car Sporty Road Car	1.1 - 1.3 Hz 1.3 - 1.5 Hz							
		Sports Car Super Car	1.5 - 1.7 Hz 1.7 - 2.2 Hz							
		Race Car Formula Car Historic experience indica	2.2 - 2.8 Hz > 3.0 Hz ates that it is good to	have the Rear R	Ride Frequency about 10%	higher than Front Ride Fr	requency. See S	TEP 3		
	STEP 2	DEFINE SPRING & TIR	E RATES RANGE T	HAT COMPLY V	WITH STEP 1			Parentan	e Critical Damping - Rear	
	STEP 3	FIND BEST BOUNCE & If you do this exercise we	PITCH CENTER A	CORDING IND nd a good startin	DICATIONS ON SHEETS ng point for STEP 8	ADJUST SPRING RATE	ES .	70%		
	STEP 4	DEFINE TARGET MAXI	MUM PERCENTAG	E CRITICAL AV	ERAGE BODY DAMPING	IN LINE WITH TYPE OF	F CAR	Na Contraction		
		Road Car Sporty Road Car	30% - 40% 40% - 60%							~
		Sports Car Super Car	50% - 70% 60% - 80%]	(
		Race Car Formula Car	70% - 100% > 80%					10% 0 200 400 000	800 1000 1200 1400 10	0 100
	STEP 5	DEFINE TARGET % CR Some General Indication	ITICAL DAMPING F	OR HIGH DAM	IPER SPEEDS FOR BOD	A WHEEL		Average % Damping Bo % Damping Body in Re	ertical Wheel Speed (Invers) lody	
		Road Car Racing	Range: Jounce 109 Range: Jounce 209	6 to Rebound 40 6 to Rebound 10	0% 00%			% Damping Wheel in J	iounce —— % Damping Wheel in Rebox	4
	STEP 6	MODIFY "MEASURED"	DAMPER DATA TO	ACHIEVE STEI	P 4 & STEP 5					
	STEP 7	VERIFY % CRITICAL D BUT THIS IS DEPENDIN MAKE MODIFICATIONS	AMPING FOR WHE NG ON SPRING RA S TO DAMPER INPL	EL. IDEALLY TH TES AND BODY IT DATA UNTIL	HE WHEEL DAMPING SH Y WEIGHTS NOT ALWA' STEP 1 TO 6 ARE OK. 1	OULD FOLLOW BODY 'S POSSIBLE. 'HEN PROCEED TO NEX	KT STEP			
	STEP 8	4 POSTER SWEEP SIN								
EASE 8.0 NEW	W FEATURE	START WITH "EXPONE VERIFY IF MAXIMUM E	NTIAL DECAYING	AMPLITUDE". T	THIS WILL GENERATE A	ROAD PROFILE WITH O	CONSTANT MA	XIMUM EXCITATION VELOCITY. NOT CHANGE START AMPLITUE	DE.	
		START WITH "AVERAG	ED' JOUNCE & RE EEDS ARE IN DES	BOUND DAMPI IRED OPERATI	ING. THIS WILL "SMOOT ING RANGE (USUALLY «	HEN" THE POSSIBLY LA 1,5 M/S). AT BODY PEA	ARGE DIFFERE	NCES BETWEEN JOUNCE AND FREQUENCIES THE SPEED CA	REBOUND DAMPING AN BE HIGHER THOUGH	
LEASE 8.0 NEW	W FEATURE	VERIFY THAT NORMAL VERIFY THAT BODY TI	IZED DYNAMIC W	HEEL LOAD RE	EMAINS ABOVE -1. THIS COUND 1 OR ABOVE. IF I	MEANS THAT IN THE RE IECESSARY ADJUST ST	EAL WORLD TH TART AMPLITUI	E TIRE REMAINS ON THE ROAD	D. D & DYNAMIC WHEEL LOAD	
		START USING SPRING	SCALING FACTOR	S TO MAKE FR	RONT BODY AND REAR	BODY TRANSFER FUNC	TION AS "SIMIL	LAR AS POSSIBLE" = MATCHING	3 DAMPED NATURAL FREQUENC	ES.
		NOTE: ON SOFTER SE USE METRICS FOR BC	TUPS THE WHEEL	HOP MODE WI	ILL ALWAYS SHOW UP HE PEAK VALUE IS, THE	SEE EXAMPLES BELOV BETTER CONTROLLED	W. D IS THE BODY	MOVEMENT.		
		LOOK AT DYNAMIC WI PROFILE WITH THE SA	HEEL LOAD INDICA	TOR OF THE T	RANSFER FUNCTION A IPLETE FREQUENCY RA	ND TRY TO MAKE IT AS NGE AND THEREFORE I	POTENTIALLY	BIBLE. THIS WOULD INDICATE, T REDUCING CONTACT PATCH LC	THAT THE TIRE "FOLLOWS" THE DAD FLUCTUATIONS	WHILET
		KEEPING OTHER MET TRY ALSO MINIMIZING	RICS AS GOOD AS	POSSIBLE AND NAMIC/STATIC	D FIND THE BEST COMP C CONTACT PATCH MET	ROMISE. RIC WHILST KEEPING C	OTHER METRIC	S AS GOOD AS POSSIBLE. THIS	S VALUE IS HOWEVER LESS IMP	ORTANT
ELEASE 8.0 NEW	W FEATURE	THAN THE UNLOADING	METRIC AND MIG	HT BE "SACRIF	FICED" FOR A BETTER (D DAMPING AND SEE W	VERALL COMPROMISE	L NON-LINEAR	DAMPING HAS ON THE RESULT	TS, ESPECIALLY ON % CRITICAL	DAMPING
		FINE TUNE JOUNCE &	REBOUND DAMPIN	IG WITH THE S	SCALING FACTORS. TR	TO KEEP OVERALL DA	AMPING CONST	ANT (F.I INCREASE BUMP DAMI	PING & REDUCE REBOUND DAM	ING)
	STEP 9	HALF SINE / RAMP INP	UT TEST - VERIFY ARE IN METER (not	TIME BEHAVIO mm). MAX. SIN	OR & FINE TUNE JOUNC MULATION TIME = 5s	E / REBOUND DAMPING	L			
		DEFINE RAMP/HALF S TAKE NOTE OF EXCIT.	INE HEIGHT (UP OI ATION FREQUENC	R DOWN), LENG Y. THIS WILL IN	GTH & DEFINE VEHICLE NDICATE IN WHAT OPEI	SPEED RATING FREQUENCY TH	HE SUSPENSIO	N / CAR WILL BE EXCITED BY T	THE OBSTACLE	
		VERIFY IF DAMPER SF	PEEDS ARE IN DES	IRED OPERATI	ING RANGE (USUALLY <	1,5 M/S).				
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