

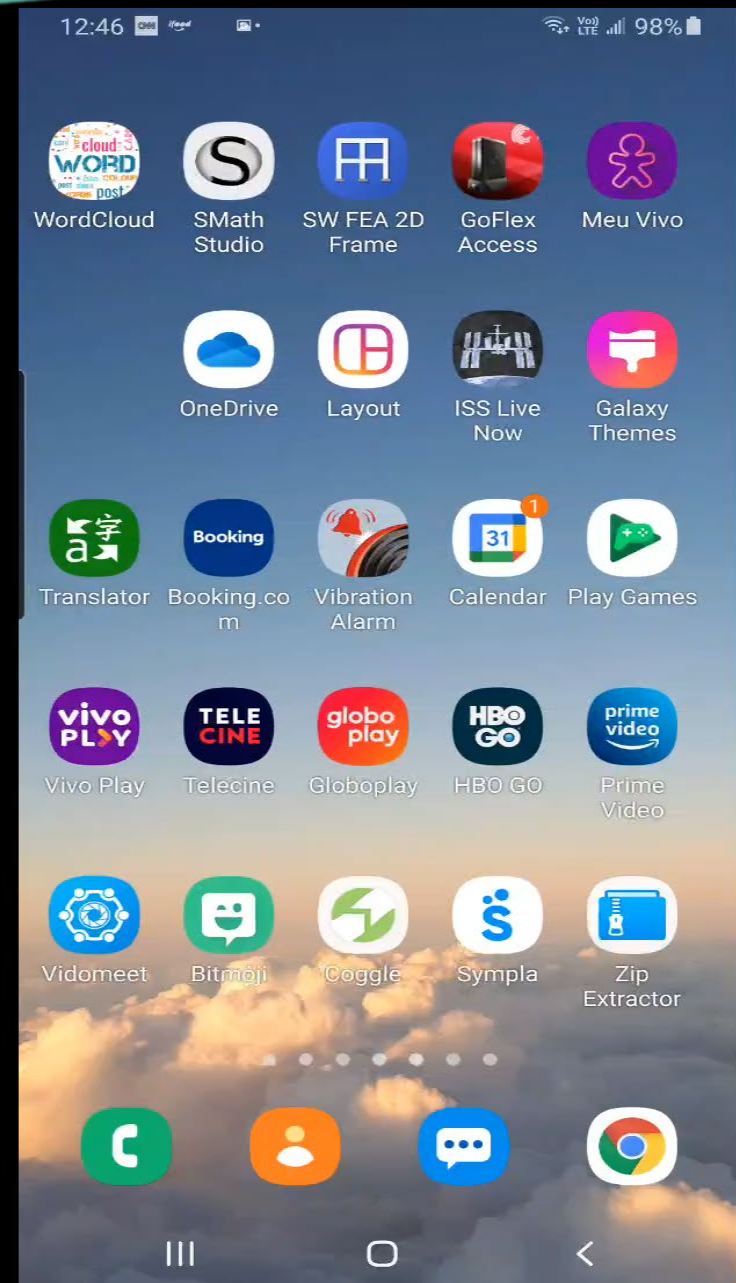
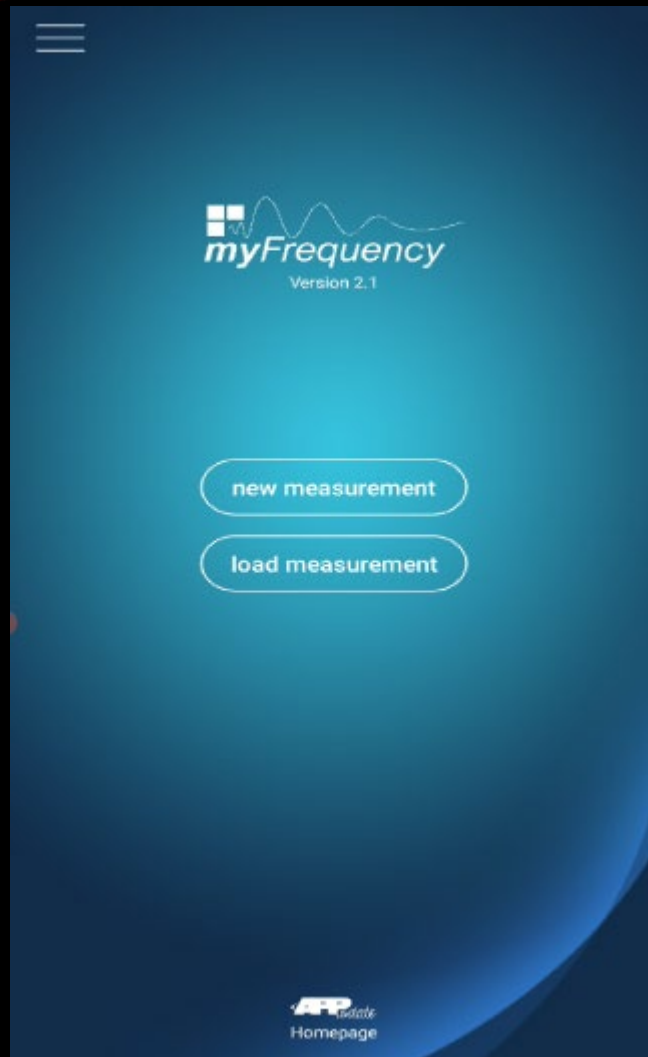


MEDICÃO EXPERIMENTAL DE FREQUÊNCIAS

Zacarias Chamberlain

ESTE MATERIAL É DE PROPRIEDADE DO AUTOR E APENAS É FORNECIDO
COMO FERRAMENTA DE ACOMPANHAMENTO DO CONTEÚDO DO CURSO.







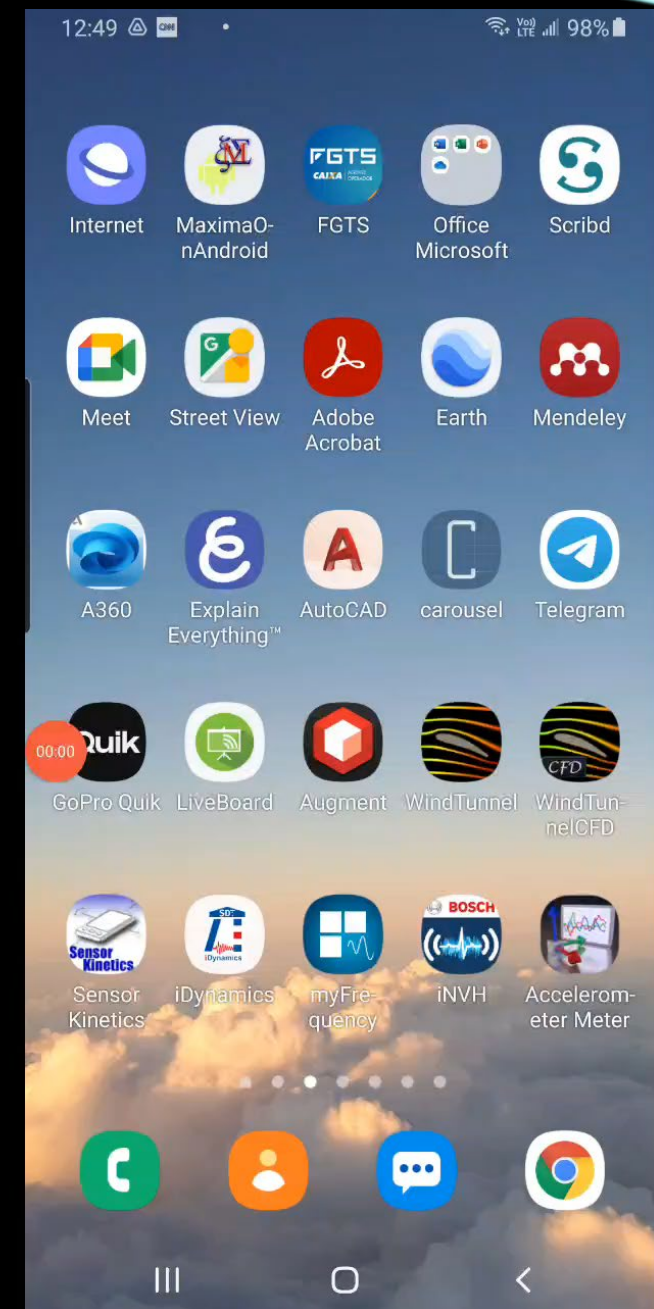
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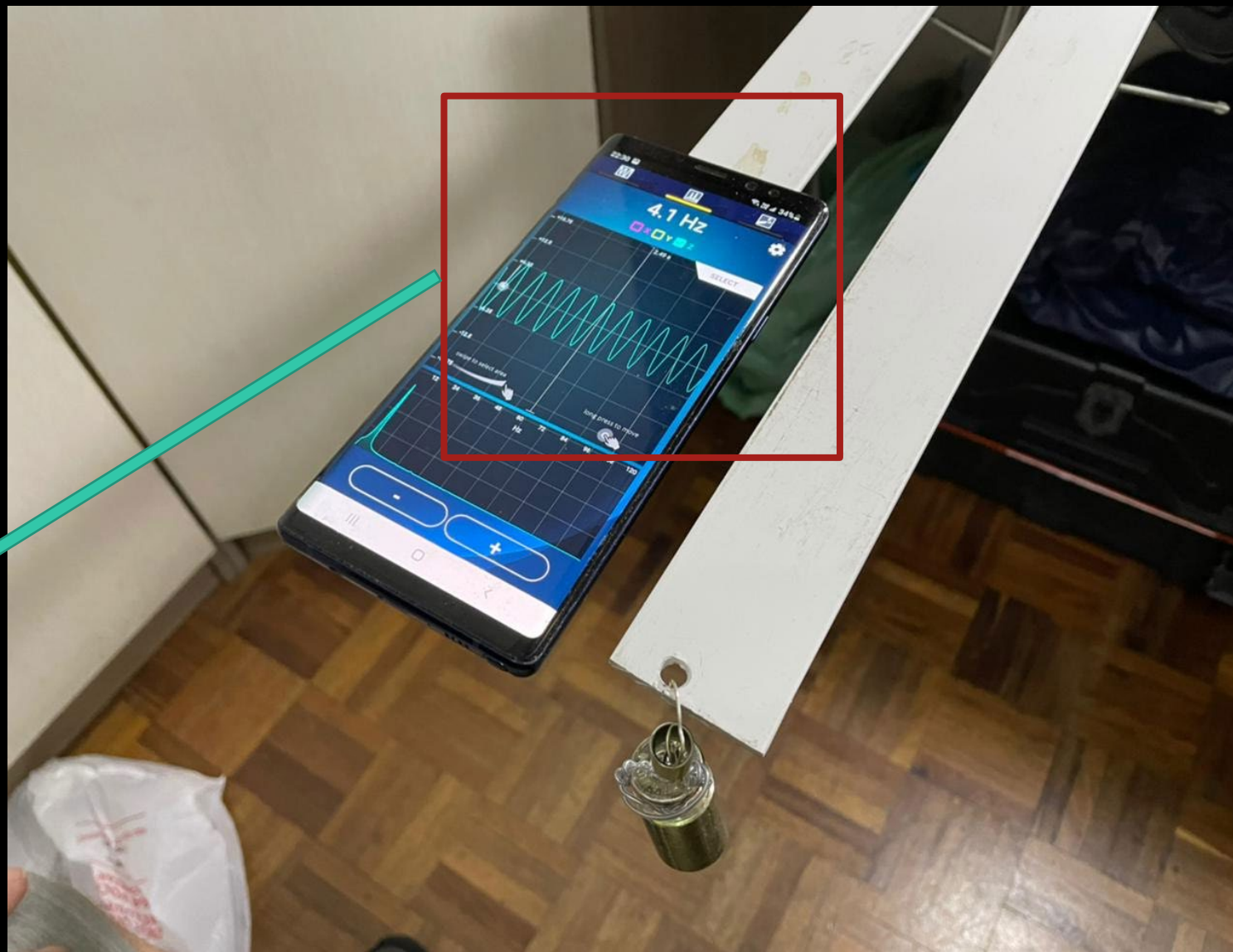
Authors:
Hamid Sadegh-Azar, Arthur Feldbusch
Patric Agne, Carl Kögel, Gabriel Müller

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☐ Accept Datenschutzerklärung

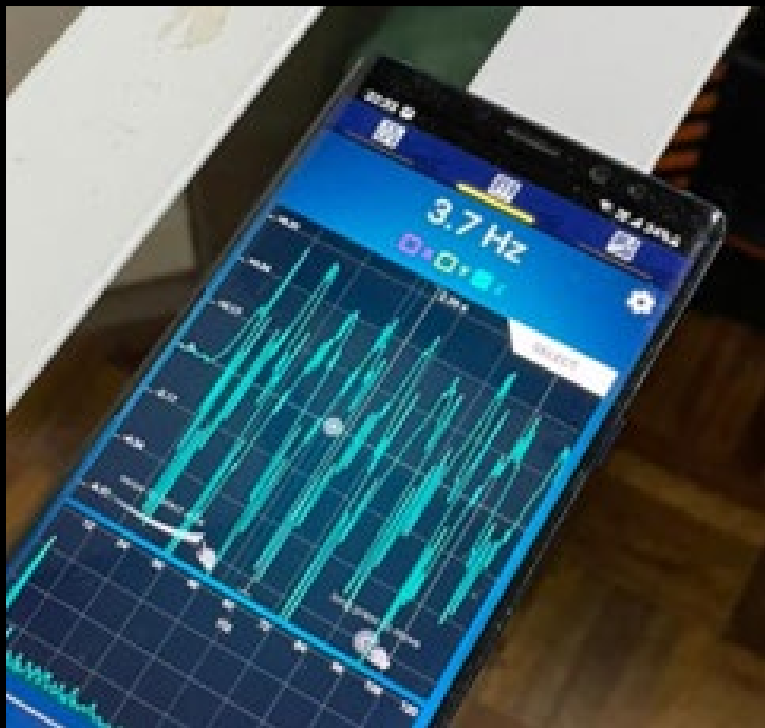
CLOSE
CONTINUE



Galaxy Note 9
416 Hz com o
MyFrequency



Galaxy Note 9
416 Hz com o
MyFrequency



Galaxy Note 9
416 Hz com o
MyFrequency

Teste



Mesa vibratória e
modelo de 4 andares.





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Measurements of bridges' vibration characteristics using a mobile phone

***Medição de características de vibração de pontes
de concreto usando telefonia móvel***

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Figure 2 – Points at which samples were extracted

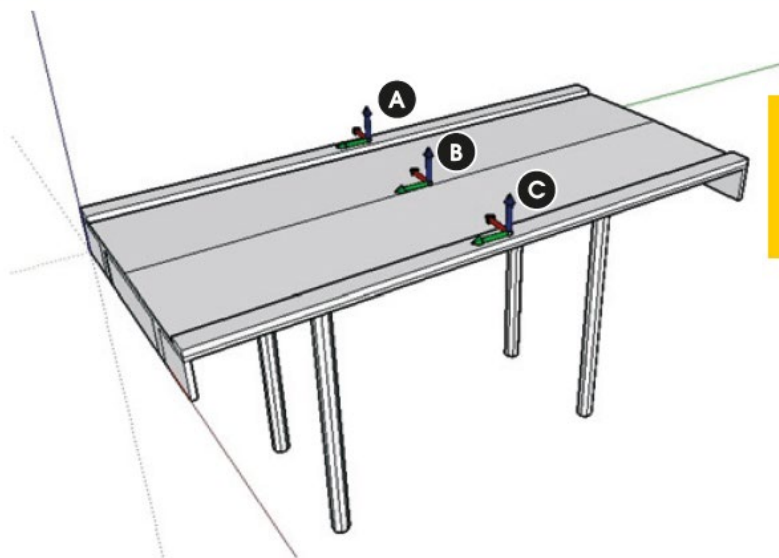


Figure 3 – Ideal conditions for data collection

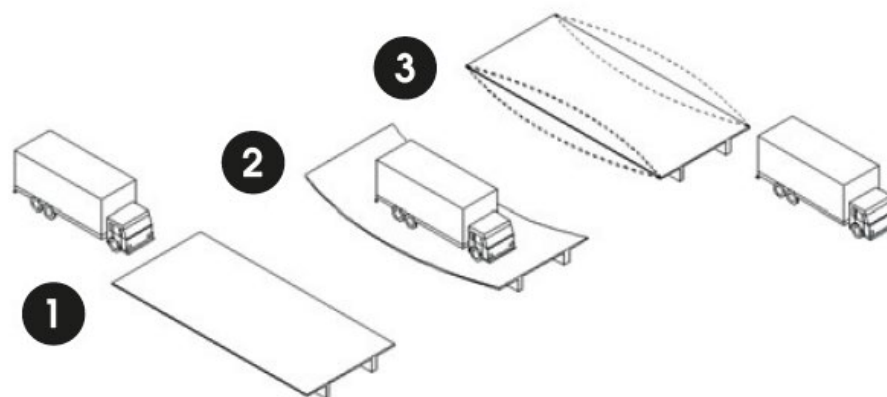
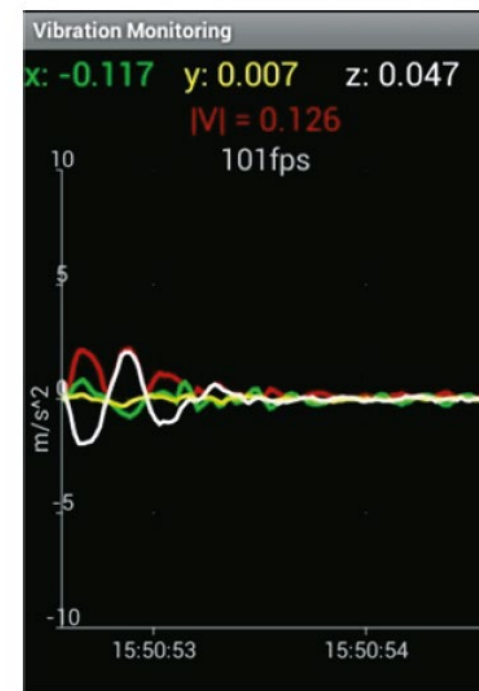
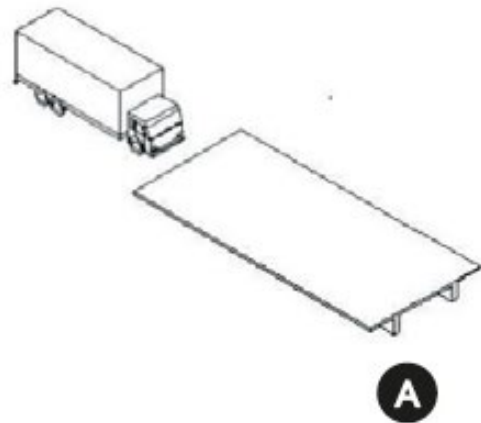
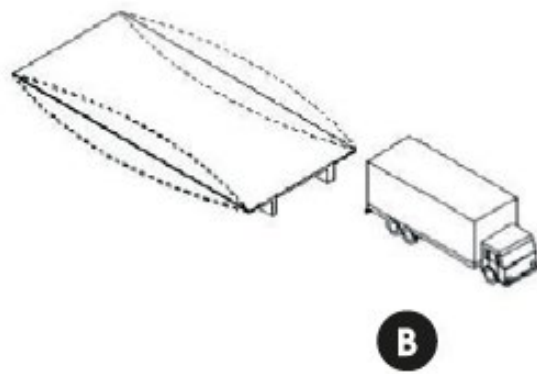


Figure 1 – Graphic interface of software used to monitor the vibration





Before vehicle passes



After vehicle passes

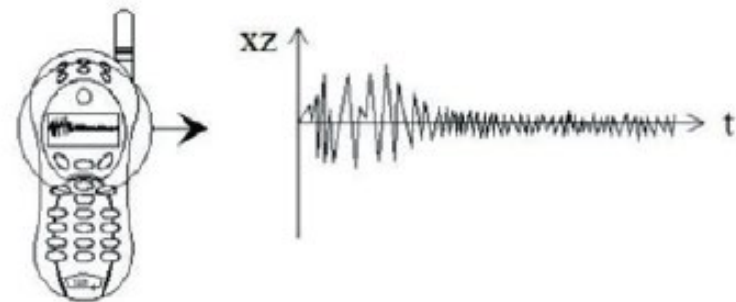


Table 5 – Numerical and experimental frequencies obtained

	Numerical model		Experimental results	
	Vibration modes	Frequency (Hz)	Sample	Frequency (Hz)
Vladuct V1	1 – Torsion	11.64	1	12.31
	2 – Flexion	12.03	2	13.08
	3 – Torsion	13.78	3	11.72
	–	–	4	12.60
	–	–	5	14.45
	–	–	6	13.08
	–	–	7	7.81
Vladuct V2	1 – Torsion	6.93	1	6.05
	2 – Flexion	7.57	2	6.44
	3 – Transverse	10.13	3	6.25
	–	–	4	7.42
	–	–	5	6.44
	–	–	6	Noise
	–	–	7	5.96
	–	–	8	Noise
	–	–	9	6.49

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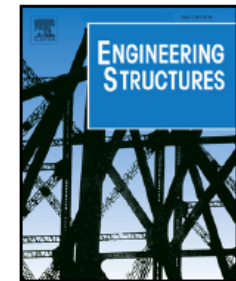


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Experimental and analytical study of vibration parameters in waffle concrete slabs



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