

Université de Liège

Faculté des Sciences Appliquées

Array recordings of ambient vibrations:
surface-wave inversion

A thesis submitted for the degree of
Doctor of Applied Sciences
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... (section ??, equation (??)) ...

$$\begin{aligned}h_n &= \hat{h}_n/k \\k_n &= \hat{k}_n/k\end{aligned}\tag{A.1}$$

$$\left. \begin{aligned}SH &= 0.5 \frac{1 - e^{-2d_n \hat{h}_n}}{h_n} \\CH &= 0.5(1 + e^{-2d_n \hat{h}_n})\end{aligned} \right\} \text{if } h_n \text{ is real.}\tag{A.2}$$

Figure A.1: long caption.

Figure A.3: long caption.

$i t_{max}$...;

n_{s0} ...;

1. ...;

2. ...;

Figure A.4: long caption.**Figure A.5:** long caption.

Array geometry	Number of sensors	k_{min}	k_{max}
Perfect circle	25	0.024	1.00
Cartesian grid	25	0.022	0.25
Spiral	25	0.036	2.75
Perfect circle	10	0.024	0.40
Three triangles	10	0.038	0.36
Irregular circle	10	0.026	0.15

Table A.1: long caption.**Figure A.2:**
long caption.

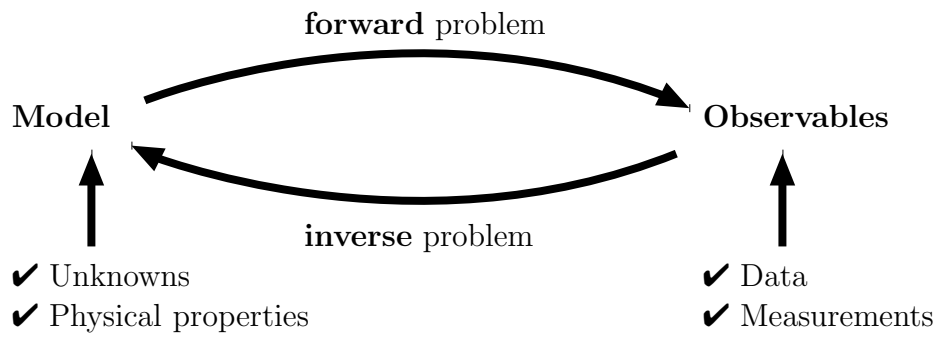


Figure A.6: Definition of an inversion problem

References

Acknowledgements