

Imaging with surface-related multiples using linear and non-linear modelling

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DOI

[10.4233/uuid: b889f488-2e68-4f95-95ee-e0a6b7e3fa5a](https://doi.org/10.4233/uuid:b889f488-2e68-4f95-95ee-e0a6b7e3fa5a)

Publication date

2023

Document Version

Final published version

Citation (APA)

Nath, A. (2023). *Imaging with surface-related multiples using linear and non-linear modelling*. [Dissertation (TU Delft), Delft University of Technology]. [https://doi.org/10.4233/uuid: b889f488-2e68-4f95-95ee-e0a6b7e3fa5a](https://doi.org/10.4233/uuid:b889f488-2e68-4f95-95ee-e0a6b7e3fa5a)

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Propositions

accompanying the dissertation

IMAGING WITH SURFACE-RELATED MULTIPLES USING LINEAR AND NON-LINEAR MODELLING

by

Aparajita NATH

1. The success of the mirror imaging method has limited the further exploration of using higher orders of multiples in imaging with OBN data (this thesis).
2. Non-linear imaging methods are indispensable for getting more accurate and detailed subsurface images but they tend to get trapped in local minima. Therefore, a hybrid method (combination of non-linear and linear imaging) is mandatory (this thesis).
3. With the transition from seismic exploration to economic monitoring of subsurface processes, the use of multiples will be indispensable.
4. Marine vibrators will largely replace the air-gun sources.
5. Free and accessible mental healthcare services should be a basic human right.
6. Gender gap in corporate as well as academic institutions can only be remedied by creating a safer and inclusive space.
7. Diversity in leadership does not ensure diversity of opinions unless the status quo is challenged.
8. Outsourcing production to benefit from poor worker rights and lower wages is a form of modern slavery.
9. Housing should not be a tradeable commodity.
10. Metaphors have no place in a scientific conversation.

These propositions are regarded as opposable and defensible, and have been approved as such by the promoters Dr. ir. D. J. Verschuur and Prof. dr. ir. N. de Jong.