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A forward glimpse into inverse problems through a geology example.

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Summary: This paper describes a forward approach to an inverse problem related to detecting the nature of geological substrata which makes use of optimization techniques in a multivariable calculus setting. The true nature of the related inverse problem is highlighted.

Classification: M55 I65 N65

Keywords: inverse problems; geology; seismology; multivariable calculus; optimization; sound propagation
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