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June 3rd, 2020 - ray theory a high frequency approximation simple to program putationally efficient and easy to generalize to 3 dimensional earth models good for modeling seismic phase arrival times earthquake location algorithms body wave focal mechanism determinations inversions for velocity structure not very good for amplitudes'

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June 4th, 2020 - on the other hand according to the ray theory the travel time from point a to b is given by  $t_{ab} = \int_a^b \frac{ds}{c}$  where ds is the distance measured along the ray and c is the seismic velocity thus a ray traveling through a

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slow anomaly will arrive after a ray traveling through the rest of the medium'

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May 24th, 2020 - seismic processing is a chain of interdependent steps where the effectiveness of any given link in the chain depends on how effectively earlier links have executed and achieved their specific goals and purpose among processing steps are the removal of free surface and internal multiples and depth imaging and inverting primaries'

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June 3rd, 2020 - the simplest yet very powerful example of these hf methods is the seismic ray method babich 1956 karal and keller 1959 the great significance of the seismic ray method is its universality effectiveness conceptual clarity

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**and its ability to investigate various seismic body waves independently of other waves''seismic ray theory cambridge university press**

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academic institutions in which seismology is taught or researched and an invaluable resource in the petroleum industry and geological surveys'

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tracing 1 introduction the seismic ray method is  
based on the approximate high frequency solution  
of the elastodynamic equation'**

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approach in which a point on the wavefront is  
tracked rather than the plete wave?eld ray theory  
is extensively used due to its simplicity speed  
and applicability to a wide range of problems'**

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October 9th, 2019 - seismic tomography is a group of seismic inversion methods based on data prediction via solution of a wave equation this chapter discusses seismic tomography based on ray theory which essentially is a high frequency approximation to the wave equation'

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