

Abstract Submitted
for the OSS08 Meeting of
The American Physical Society

Journey to the Center of the Earth RONALD G. TABAK,
Youngstown State University — Since at least 1898, a problem concerning the time
an object would take to travel along an Earth diameter (or a chord) has been ap-
pearing in general physics and mechanics books. However, it is always assumed that
the density of the Earth is constant and it is not rotating. Using an actual geo-
physical model of the Earth's interior and a simple spreadsheet formulation, a more
reasonable figure of 38 minutes (one way) is determined, compared to 42 minutes
for the homogeneous Earth.

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Date submitted: 29 Feb 2008

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