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If the calculations of the motion are made in a Galilean frame (Earth-centered space-fixed), in most practical cases, one needs to know the position of the satellite relative to the Earth (Earth-centered Earth fixed). The satellite track is well defined by its geographical coordinates, longitude and latitude.

Ground Track of a Satellite | Springer for Research ...

In ancient times, these conic sections were viewed as a geometrical curiosity. M. Capderou, Handbook of Satellite Orbits: From Kepler to GPS, DOI 10.1007/978-3-319-03416-4 1, © Springer International Publishing Switzerland 2014 1 fChapter 1.

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