# Broadcast Ephemeris Generation by Curve Fitting to Satellite Positions

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# 1. Ephemeris parameters



# 2. Ephemeris to satellite position (IS-GPS-200F Table 20-IV)



























# 3. Partial derivatives of satellite positions wrt ephemeris parameters

































































































































































# 4. Least square estimation of ephemeris parameters



: osculating orbital elements at TOE

***do loop*** *until convergence*:

, 



***if***





***else*** :



