Photogrammetric Engineering

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COVER PAGE—The GEODETIC SECOR SATELLITE SYSTEM can be used to locate the desired geodetic coordinates of a ground station by making sequential range measurements (which are essentially simultaneous) to the satellite from three known stations and from the unknown station (upper diagram). If the satellite cannot be viewed from the three known stations and the unknown station at the same time, the electronic range measurements are made practically simultaneously from the known stations to the satellite, and the range from the unknown position is measured shortly before or after on the same pass (lower diagram); by applying the parameters of the satellite's orbit, the desired position can be determined. The ground stations are transportable by aircraft, ship or truck to locations throughout the world. Artist's concept prepared by the U.S. Army Engineer Topographic Laboratories, TOPOCOM.

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