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Research Details :

Research Title	:	*VARIATIONS OF PERTURBATIONS IN PERIGEE HEIGHT WITH ECCENTRICITY FOR ARTIFICIAL EARTHS SATELLITES DUE TO AIR DRAG*
		VARIATIONS OF PERTURBATIONS IN PERIGEE HEIGHT WITH ECCENTRICITY FOR ARTIFICIAL EARTHS SATELLITES DUE TO AIR DRAG
Descriptipn	:	The variations of perturbations in perigee distance for different values of the orbital eccentricity for artificial Earths satellites due to air drag have been studied. The analytical solution of deriving these perturbations, using the TD model (Total Density) have been applied, Helali (1987). The Theory is valid for altitudes ranging from 200 to 500 km above the Earths surface and for solar 10.7 cm flux. Numerical examples are given to illustrate the variations of the perturbations in perigee distance with changing eccentricity ($e < 0.2$). A strong perturbations in the perigee distance have been shown when the eccentricity in the range $0.001 < e < 0.05$, especially for perigee distance 200 km.
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