THE PERFORMANCE OF THE 13.7 m ITAPETINGA RADIOTELESCOPE

Zulema Abraham
Instituto Astronômico e Geofísica - USP

We present the characteristics of the 13.7 m radome enclosed Itapetinga radiotelescope. Special emphasis is given to the tracking facilities and to the receivers for continuum and line observation. We review the scientific results obtained with the radiotelescope in the areas of Solar Physics, Interstellar Medium (maps in the continuum, recombination lines, maser sources, etc) and Extragalactic Radioastronomy. Itapetinga's participation in VLBI experiments is discussed, showing the importance of its geophysical position for the construction of maps of sources in the southern hemisphere and near the equator.

SPACE TECHNOLOGY IN BRAZIL: PRESENT AND FUTURE DEVELOPMENTS

C.C. Ghizoni - Space Engineering and Technology - INPE

In this work we present a survey of the status of the Space Technology Development in Brazil and its future perspectives. The technologies that have been developed for MECB first satellite, presented in detail, are the basis of the Brazilian future Space Technology Program. Achievements and future efforts in the strategic areas such as attitude and orbit control, satellite propulsion, electro-optical sensors, telecommunications, imaging systems, flight dynamics, structure and thermal control, tracking and receiving ground stations and space energy systems are discussed under view point of assessment of technology.