



Fig 1. Conceptual model of EME.

IV. RATIONALE

In the EME technique, The Moon is used as a passive satellite. It is approximately 384,000 (±) km away from the earth (distance varies as Moon's orbit is not perfectly circular). This distance is the mean of apogee and perigee. Radio waves propagate at the speed of light c , exactly 299,792,458 m/s. Propagation time to the Moon and back is therefore $2d/c$.

d is distance (average distance at any given time)

or about 2.8 s at perigee

or about 2.7 s at apogee

or about 2.58 s on average, but for message coding 2.25 s time is measured.

Thus the lag time is 2.25-second. It means that a signal sent to the moon does not return until 2.25 seconds have elapsed. If two people are engaged in a conversation and one person asks a question, that person cannot expect a reply until at least 4.50-seconds have elapsed. The Moon is nearly spherical, and its radius corresponds to milliseconds of wave travel time. The trailing parts of an echo, reflected from irregular surface features near the edge of the lunar disk, are delayed from the leading edge by as much as twice this value.

V. EXPERIMENTS

Amateur radio operators (HAMs) use EME technique for two-way communication. Here, EME has to work in challenging situations as they have to decipher weak signal, but it is a fun to make difficult, unusual and exceptional contact. Amateurs generally use VHF and UHF to communicate through EME. In this mode of communication, Amateurs use only their own basic setup, no high end equipment or antennas are required. In this paper, mode of communication is restricted to VHF (CW) on 2 meter.

V.1 EQUIPMENTS:

Amateur-radio moon-bounce generally requires the following:

- A transceiver having sensitive receiver with a narrowband filter. (Fig.2)
- A transceiver, capable of operating on amateur band above 144 MHz, and capable of producing high watts of continuous radio-frequency output. (Fig.2)
- A power amplifier. (Fig.3)
- Antennas with high directivity and gain, capable of being rotated in both the azimuth and elevation planes. (Fig. 4)
- Rotors. (Fig. 5)
- Computer / Notebook.
- Moon Prediction software
- A location in which the moon can be seen without obstructions for extended periods
- A location where QRM and QRN are minimal

Eme Operating Guide For 50 Mhz

Hussin A.Rothana



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