

**AN APPLICATION OF DIRECTION FINDING ANTENNAS
FOR LIGHTNING LOCATING SYSTEM**

Raungyudh Raungsakul and Yuttapong Rangsanseri

Department of Telecommunications Engineering, Faculty of Engineering
King Mongkut's Institute of Technology Ladkrabang, Bangkok 10520, Thailand
e-mail: rangsanseri@yahoo.com

Abstract

Lightning is main cause of electric utility outages and equipment damage throughout the world. Monitoring the lightning events and studying the information occurrence are useful to understand early warnings. The most common ground based methods of monitoring is lightning direction finder which detects cloud to ground lightning and then determines their location by triangulation of two or more lines of bearing. This paper presents the Two Crossed Loop Antennas senses the magnetic field, which radiated from a lightning flash by using orthogonal cross loop antennas. The prototype was built and some experimental results will be discussed.

Suggested topic: 4.2 Application of New Sensors
Proposed Presenter: Raungyudh Raungsakul
Mailing address: Dr. Yuttapong Rangsanseri
Department of Telecommunications Engineering
KMITL, Ladkrabang, Bangkok 10520, Thailand
+66-2-326-4554
Fax: +66-2-326-4554
E-mail: rangsanseri@yahoo.com, raungyudh.r@egat.co.th
Preference: Poster presentation