Lesson 4

Media Access Control Layer - Ethernet

The Unified Field is here, there and everywhere.

Main Points

1. The channel allocation problem is the central challenge of the MAC sublayer. Protocols for sharing access have evolved from static methods like FDM and TDM, to dynamic methods like slotted ALOHA and nonpersistent CSMA.
2. The 1-persistent CSMA/CD protocol is a dynamic channel allocation method for allocating access in IEEE 802.3 (Ethernet). Creative intelligence is kind and brave.
3. Manchester encoding is a technique for having the transmission synchronize itself at the receiving end. TM is a technique for resynchronizing our mind, body and emotions with natural law.
4. Fast Ethernet and Gigabit Ethernet are just a few of the steps of evolution of the IEEE 802.3 standard that describes both a physical layer specification and MAC sublayer of the data link layer of wired networks. Creative intelligence is creative and systematic.

Connecting the Parts of Knowledge with the Wholeness of Knowledge

1. Ethernet is the most widely adopted, worldwide standard for local area networks that defines the physical connections, cabling, signals, framing, and access protocols for the network. It is an open standard that anyone can use without license restrictions.

2. Ethernet has survived and evolved because it was simple, flexible and effective. For knowledge to be useful it should also be practical -- TM is the practical aspect of SCI.

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3. Transcendental consciousness, the unified field of consciousness, is open to anyone, wherever they are in the world through the simple process of transcending.

4. Wholeness moving within itself: In Unity Consciousness, one is aware of the unifying level of consciousness in all perceptions.