1108-45-161   **Kam C Ng*** (`kam.ng@kodak.com`), Kodak Technology Center, Materials Deposition Interaction Department, Eastman Kodak Company, Rochester, NY 14650-2109. *A Mathematical Model for the Capacitive Touch Sensor.* Preliminary report.

We have developed a mathematical model of simulating a finger approaching a touch screen sensor. The simulating results have been shown to be consistent with experiments. The model includes electrode conductors and floating conductors in which potentials or the sum of the charges is specified. Boundary element or method of moments is used to compute the charges on the sensor. The model has been applied to the 2D touch screen sensors. (Received January 09, 2015)