



The Physics and Chemistry of Liquid Crystal Devices (The IBM Research Symposia Series)

Gerald J. Spokel

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Over 100 scientists met at the IBM Research Laboratory in San Jose, California for a symposium on the Physics and Chemistry of Liquid Crystal Devices. The two-day meeting was intellectually stimulating with excellent oral presentations and with person-to-person discussions. The applications of liquid crystals have developed dramatically in the past ten years. In these few years, they have moved from being a laboratory curiosity to products in the market place. The first commercial application (1940's) of liquid crystals was the preparation of a light polarizer. The second commercial application was their use as temperature sensors. The third major application of liquid crystals dealt with commercial displays. Other current applications include polymeric and graphitic fibers and light attenuators. The future of liquid crystals looks very promising indeed. One can expect to see new fibers of qualities which will be superior to those presently known. Graphitic fibers or other physical forms of graphitic materials will be used as catalytic surfaces for chemical synthesis. In the display area, one can expect to see television screens using liquid crystals. Larger displays than are now used in wrist watches and pocket calculators will become available. Liquid crystals using color displays will become commercially practical. Watches, calculators and television screens will have color.

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