BOOK SECTION

MERCURY CADMIUM TELLURIDE IMAGERS - A Patent Oriated Survey

Anders C.Onshage, Handbook of Sensors and Actuators Vol 5 *Elsevier Science B.V.*, Sara Burgerhartstraat 25, P.O. Box 211, 1000 AE Amsterdam, THE NETHERLANDS ISBN:0 444 82790 0 (1997) 439 pages.

This Handbook Series is a well conceived idea which brings the wide frame of research and applications in a nutshell. This series will definitely help both engineers and scientists working in this exciting or related fields.

Mercury Cadmium Telluride Imagers is a timely publication. This book attempts to describe the evolution of Hg-Cd-Te imager structures based on published patents and patent applications. The book has two parts: the first part describes monolithic arrays with the detector elements and read-out means integrated in the semiconductor body; the second part describes hybrid arrays, with detector elements and the read-out means formed in separate semi-conductor bodies.

Each part has 5 chapters. Part I covers Charge Coupled Device Imagers, Ambi polar Drift Field Imagers, Static Induction Transister Imagers, Charge Injection Device Imagers and Charge Imaging Matrices followed by part 2 covering Detector Arrays with Individual Detector Elements Read-out leads, Detector Arrays without Individual Detector Elements Read-out leads, Flip-Chip Arrangements, Z-Technology Arrangements and Detector Arrays directly contacting the read -out chip connections made by through hole techniques. The introduction as well as each chapter has a concise and well explained summary followed by good illustrations which are quite discriptive and in easy to understand mode and this itself provides an overview which is fantastic and says so much of the subject. In addition to the exhaustive references at the end of each chapter, a patent number index with information about the patent applications, inventors, priorities & patent family, an inventer index, a company index and a subject index can be found at the end of the book.

This very well printed handbook along with its sister publications - Vol I Thin Film Sensors, Vol 2 Solid state Magnetic Sensors, Vol 3 Intelligent sensors and vol 4 Semiconductor sensors in physico chemical studies - are noteworthy publications and will usefully adorn the shelves of any good library. For individula Scientists and Engineers, it is a ready reconer handbook and a must on their shelves. The illustrations and compact presentation focussing on steps of manufacturing and structure of imagers helps easy accessibility to needed literature.

A copy may be procured by placing the order with *Elsevier Science B.V.*, Sara Burgerhartstraat 25, P.O. Box 211, 1000 AE Amsterdam, THE NETHERLANDS or Elsevier Science Inc. P.O.Box 945, Madison Square Station, NEW YORK NY 10160-0757 USA

Prof. (Mrs). D.K. Padma
Electrochemical Society of India

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