

NEW BOOKS

■ **MEDICAL THERMOGRAPHY:** this is not a very recent book, indeed it was published in 1973 by the University of Tokyo Press (7000 yen). Therefore it is possible that this book would not be adequately known in America and Europe. « *Acta Thermographyca* » feels justified in presenting it even though it is not new « *sensu strictiori* ».

The book has 380 pages with numerous figures; was edited by K. Atsumi from the Institute of Medical Electronics, Faculty of Medicine, University of Tokyo.

This book is devoted to reports presented at the 2nd and 3rd conferences sponsored by the Japanese Society of Medical Thermography in 1971 and 1972 respectively.

Thermographic activity in Japan is remarkable. The programme of the 8th conference is reported in the survey « *Thermography in the world* » held in June 1976.

25 Papers are reported in « *Medical Thermography* » of which 11 are devoted to the physical problems of infrared radiation and to the thermographic technique, 4 to heart diseases, 5 to vascular diseases, 2 to obstetrics and gynaecology and 3 to other clinical problems.

The following is the content of the book which should be present in all libraries of institutes working in thermography: *Medical thermography in Japan* (K. Atsumi); *Principles and requirements of medical thermography* (Y. Sakurai et Al.); *Some physical and physiological aspects of thermography* (I. Fujimasa et Al.); *Barnes thermographs* (H. Nemoto); *AGA Thermovision, thermography with real-time presentation* (S. B. Borg et Al.); *Infra-eye (a medical infrared image - producing apparatus)* (C. Fujii); *Medical infravision* (S. Ohno et Al.); *The model 6T01 thermotracer for medical use* (H. Ishiwatari et Al.); *Construction and features of the thermoviewer* (A. Masuki et Al.); *Canon thermocamera* (Y. Koizumi); *Thermal recovery* (A. Nagasawa et Al.); *The application of thermography to oral surgery* (A. Nagasawa); *Some basic studies on breast thermography using phantoms for detection of tumours* (Y. Onai); *Thermography experiments on breast diseases* (Y. Nomura et Al.); *Clinical studies of the factors related to the thermographic diagnosis of breast diseases* (Z. Yamazaki et Al.); *The diagnosis of breast cancer by thermography* (Y. Ohashi); *Clinical application of infrared thermography to the study of Raynaud's phenomenon in collagen diseases* (T. Hashimoto et Al.); *Thermography in peripheral vascular diseases* (Y. Mishima et Al.); *The application of medical thermography to peripheral vascular diseases* (Y. Nakaniishi et Al.); *Thermometry in combination with lumbar anesthesia* (I. Yamaguchi et Al.); *Thermometer in the study of bloodflow circulation in skin tubes and flaps* (K. Arai et Al.); *Thermographic studies of congenital vascular malformations* (H. Azuma et Al.); *Application of thermography to obstetrics and gynaecology* (H. Suda et Al.); *Thermography during pregnancy* (S. Sakamoto et Al.).

□ **THERMOGRAPHY OF THE BREAST:** this book p. 190, by L. **Росчи**, Publ. Costantini, Cesena (Italy), at a price of Lit. 15,000, in Italian language, was presented during the I National Congress of the Italian Thermographic Society, held in Trieste, in 18th and 19th May, 1976.

L. Rocchi, M.D., is Head of the Tumours Centre of Cesena Hospital (Italy)

where an experimental Centre for breast Thermography is active.

Breast cancer mass screening by Thermography has been carried out in Cesena area from some years.

Doctor Rocchi's experience is therefore very extensive and his first book will be particularly useful to Italian thermographers; the beautiful reproductions make the book comprehensible also to not Italian thermographers.

The general index of the book is as follows:

Introduction

Physical and technical patterns of infrared radiation thermography:

1) the theory of irradiance, 2) elevation of infrared radiation, 3) the theory of temperature measurement by infrared radiation detectors, 4) description of an infrared apparatus producing a thermal image of the object.

Aga Thermovision 680 medical apparatus and relative accessories times of observation.

Physiological aspects of thermoregulation:

1) central thermoregulation, 2) variation of thermogenesis, 3) thermogenesis and surrounding air, 4) sex and thermogenesis.

Physiological variation of breast thermograms

Criteria for interpreting breast thermograms:

1) vascularization, 2) the vascular pattern in cancers, 3) the heat, 4) practical value of the edge sign.

Oncological classification

TH 1, TH 2, TH 3, TH 4, TH 5.

Benign mammary lesions

trauma, fibroadenoma, filloides cyst-sarcoma, papilloma, benign mammary dysplasia, acute mastitis, recovered mastitis, cysts, mammary hypertrophy, men's breast.

Thermography in the diagnosis of breast cancer.

The problem of cold cancer.

Thermography in the diagnosis of breast cancer and its use in health screening.

Our activities for health screening.

Comparative data between thermography and mammography.

Comparative data between thermography and cytology.

Comparative data between thermography and scintigraphy.