Book Reviews

The Role of Mathematics on Human Structure, by Swapan Kumar Adhikari, Dipali Publication, Howrah (W.B.), 2003, pp. vii + 156.

The aim of this book is to concretise Physiology, and anatomy in terms of mathematical expressions in general and geometrical deductions in particular. The author has expressed the structure of Human Body and movements in terms of mathematical process.

The author deals with the mathematical explanations, mathematical concepts, mathematical process, mathematical procedure, mathematical deductions, mathematical examination of various aspects of Human Body such as Descartes' concept of Pineal Gland, Mechanism of movements of Heart, Cervical deformations, Mechanism of Skeletal Shoulder-joint, Vertebrae, Pelvis, Human Femur, Femoral condyles distributing weight to the lower part of the Leg, Bone Lamellae and distribution of Forces on Hip-joint, Role of Ligaments etc.

The author firmly believes that if mathematical deductions are applied to orthopaedic knowledge, many complications can be avoided such as replacement of bones properly to avoid shortening and extension of limbs and other parts of human structure to make a human being restored to absolute normalcy as well as original position.

The book may be of help to the researchers, physicians and medical surgeons to calculate physiological movements on the basis of degrees of freedom.

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