

DISLOCATION MODEL OF MUSCULAR CONTRACTION

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S u m m a r y

The model describing the contraction of an ensemble of interacting muscular fibers has been developed on the basis of the continuum theory of dislocations. In the framework of this model, the evaluation of a strained state of the principal element of the cardiovascular system, the aortic ventricle of heart, has been carried out, and its qualitative interpretation has been made.