

Electrostatic Considerations in Mitosis: Integrating Physics and Cell Biology in Mitosis



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Reviews

The book is great and fantastic. It usually does not price excessive. I am happy to tell you that this is the greatest ebook i actually have read during my personal existence and can be he very best ebook for possibly.

(Abbie Feest)

ELECTROSTATIC CONSIDERATIONS IN MITOSIS: INTEGRATING PHYSICS AND CELL BIOLOGY IN MITOSIS



iUniverse.com. Paperback. Book Condition: New. Paperback. 124 pages. Dimensions: 7.9in. x 4.9in. x 0.5in. Identifying the motive force is central to explaining chromosome motions during mitosis. Presently, there is no consensus on what it is. The author has proposed a minimal assumptions model for the dynamics of post-attachment chromosome motions based on nanoscale electrostatics. Given the electrical properties of tubulin and the dynamic instability of microtubules, it is possible to account for prometaphase post-attachment, metaphase, and anaphase chromosome motions within a comprehensive model. The model addresses all of the following in a unified manner: Efficiency of aster and spindle assembly and the motive force for the motion of asters and forming half-spindles. Chromatid pair attachment. Motion of monovalently attached chromatid pairs. Motion of bivalently attached chromatid pairs and chromosome congression. Metaphase chromatid pair oscillations. Chromatid separation and anaphase-A chromosome motion. Anaphase-B pole separation. An ab-initio calculation of the maximum tension force exerted by a microtubule during mitosis that falls within the experimental range. Poleward force generation of chromosomes at poles with associated microtubule flux. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.



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