

Pollack Cells Gels And The Engines Of Life

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Pollack Cells Gels And The

Pollack finds the locus of most cell activity and function in the general phase-transition properties of gels. He cites the practical use of phase-transitioning gels in engineering and presents evidence of similar mechanisms at work in the major functions of cells. In phase transitions, "triggering is `razor-edge.'

Cells, Gels and the Engines of Life: Pollack, Gerald H ...

Cells, gels and the engines of life. (A new, unifying approach to cell function) 1st edn. GH Pollack . 2001. Seattle: Ebner and Sons Publishers. 49-50. (hardback). \$27-95 (softback). 305 pp.

Pollack, G.H. Cells, gels and the engines of life. (A new ...

Gerald H Pollack, Cells, Gels and the Engines of Life. Seattle WA: Eb ner & Son s, 2001. 305 pages. Hardback \$49.50, Pap erback \$27.95. Hardback ISB N 0-9626895-1-3, Paperback ISB N 0-9626895-2-1.

(PDF) Gerald H Pollack, Cells, Gels and the Engines of Life

Pollack challenges the current view of the cell, the cell membrane and the role of water in the cell. Describing experiments showing that the cell can survive and function with a portion of its membrane removed, or with holes punched in the membrane, Pollack notes that the cell is really a gel, made up of cross-linked structures.

Cells, Gels and the Engines of Life by Gerald Pollack ...

Pollack finds the locus of most cell activity and function in the general phase-transition properties of gels. He cites the practical use of phase-transitioning gels in engineering and presents evidence of similar mechanisms at work in the major functions of cells. In phase transitions, "triggering is `razor-edge.'

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Cells, Gels and the Engines of Life: Pollack, Gerald H ...

Cells, gels and mechanics G. H. Pollack Department of Bioengineering, University of Washington, USA Abstract The cell is a gel. Yet, gel-like features of the cytoplasm have hardly been exploited for engineering design. If the cell is a gel, then a logical approach to the understanding of cell function may be through an understanding of gel function.

Cells, gels and mechanics - WIT Press

Uncovering nature's secrets involving water is what Dr. Pollack, his staff and students do best. In his 2001 book, "Cells, Gels and the Engines of Life," Dr. Pollack explains how the cell functions. Research suggests that much of the cell biology may be governed by a single unifying mechanism - the phase transition.

Jerald Pollack and EZ water

Cells, Gels and the Engines of Life: A New, Unifying Approach to Cell Function was honored with two awards in 2003. "Distinguished Award," awarded by the Puget Sound Society of Technical Communication. Cells, Gels also received that society's, "Best in Show" award.

Cells, Gels and the Engines of Life | Ebner and Sons ...

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Cells, Gels and the Engines of Life : A New Unifying ...

Ion channels and pumps are not mythical, but overstated. Pollack traces the roots of (in his view) the "membrane-centric" misconceptions and his proposed revolution is believable. Our cells are not bags of liquid governed by membrane activities, but protein matrix-based gels covered by a thin semi-permeable membrane "skin".

Cells, Gels and the Engines of Life: A New Unifying ...

Cells, Gels and the Engines of Life: A New Unifying Approach to Cell Function. by. Gerald H. Pollack (Goodreads Author) 4.23 · Rating details · 48 ratings · 4 reviews. This book describes how cells work.

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Cells, Gels and the Engines of Life : A New Unifying ...

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Pollack, G.H. Cells, gels and the engines of life. (A new ...

Gerald Pollack's latest work, "Cells, Gels and the Engines of Life: A New, Unifying Approach to Cell Function," published by Ebner and Sons of Seattle, challenges the traditional notion that cells are tiny watery reservoirs held intact by membranes that keep cell contents from mixing with surrounding fluid.

Professor's new book seeks to rewrite understanding of ...

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