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graph theory | Problems & Applications | Britannica

Graph theory is also used in connectomics; nervous systems can be seen as a graph, where the nodes are neurons and the edges are the connections between them. Mathematics [edit] In mathematics, graphs are useful in geometry and certain parts of topology such as knot theory .

Graph theory - Wikipedia

Bibliography 55. 7. 71 Graph theoryIn mathematics, graph theory is the study of graphs, which are mathematical structures, used to model pair wise relations between objects. A graph in this context is made up of vertices, nodes, or points which are connected by edges, arcs, or lines.

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Spectral Graph Theory and its Applications. Abstract: Spectral graph theory is the study of the eigenvalues and eigenvectors of matrices associated with graphs. In this tutorial, we will try to provide some intuition as to why these eigenvectors and eigenvalues have combinatorial significance, and will sitn'ey some of their applications. Published in: 48th Annual IEEE Symposium on Foundations of Computer Science (FOCS'07)

Spectral Graph Theory and its Applications - IEEE ...

Graph theory represents one of the most important and interesting areas in computer science. But at the same time it's one of the most misunderstood (at least it was to me). Understanding, using and thinking in graphs makes us better programmers. At least that's how we're supposed to think.

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Graph Theory and Its Applications by Jonathan L. Gross

In physics and chemistry, graph theory is used to study molecules. The 3D structure of complicated simulated atomic structures can be studied quantitatively by gathering statistics

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on graph-theoretic properties related to the topology of the atoms. Statistical physics also uses graphs.

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