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Graph theory, branch of mathematics concerned with networks of points connected by lines. The subject of graph theory had its beginnings in recreational math problems (see number game), but it has grown into a significant area of mathematical research, with applications in chemistry, operations research, social sciences, and computer science.

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*Graph Theory with Algorithms and its Applications ...*

Spectral Graph Theory and its Applications Abstract: Spectral graph theory is the study of the eigenvalues and eigenvectors

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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.

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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 .

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

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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 has its applications in diverse fields of engineering – Electrical Engineering – The concepts of graph theory is used extensively in designing circuit connections. The types or organization of connections are named as topologies. Some examples for topologies are star, bridge, series, and parallel topologies.

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