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mathematical foundations of theoretical physics. The course concentrates on the main areas of modern mathematical and theoretical physics: elementary-particle theory, including string theory, condensed matter theory (both quantum and soft matter), theoretical astrophysics, plasma physics and the physics of continuous media (including fluid dynamics and related areas usually associated with courses in applied mathematics in the UK system) and mathematical structures underlying physical theory.

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Introduction. This book gives a concise presentation of the mathematical foundations of Game Theory, with an emphasis on strategic analysis linked to information and dynamics. It is largely self-contained, with all of the key tools and concepts defined in the text. Combining the basics of Game Theory, such as value existence theorems in zero-sum games and equilibrium existence theorems for non-zero-sum games, with a selection of important and more recent topics such as the equilibrium ...

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Mathematical Methods of Theoretical Physics

Theoretical computer science is a subset of general computer science and mathematics that focuses on more mathematical topics of computing, and includes the theory of computation. It is difficult to circumscribe the theoretical areas precisely. The ACM's Special Interest Group on Algorithms and Computation Theory provides the following description: TCS covers a wide variety of topics including algorithms, data structures, computational complexity, parallel and distributed computation, probabills

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After successfully completing the course, students will understand the theoretical foundations of data science and machine learning. In particular, they will learn how important machine learning techniques, such as nearest neighbors and decision trees, work. Students will gain experience in implementing these techniques.

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