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## **What is Applied Mathematics? | About | Engineering ...**

Mathematics is used a great deal in chemical engineering, especially since chemical engineers design materials and the processes by which those materials are made. To solve chemical problems, many types of mathematics are used, not least of which is calculus (including partial differential equations).

## **How is mathematics used in chemical engineering? - The**

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Yannis Kevrekidis, Bloomberg Distinguished Professor in the departments of Chemical and Biomolecular Engineering and

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Applied Mathematics and Statistics and in the School of Medicine's Department of Urology, pioneered the approach known as "equation-free computation." Kevrekidis' research interests have always centered around the dynamic behavior of physical, chemical, and biological ...

### **Department of Chemical & Biomolecular Engineering | Yannis ...**

Chemical engineers study mathematics, energy and mass transfer, thermodynamics, fluid mechanics, separation technology, matter and energy balances, and other topics of engineering, plus they study chemical reaction kinetics, process design, and reactor design. A chemical engineer needs to be analytical and meticulous.

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Mechanical engineering covers a wide range of activities,



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including research in dynamics, fluids, materials, solids, and thermodynamics. Research is strongly interdisciplinary, with many connections to applied mathematics, applied physics, Earth and planetary sciences, and chemistry and chemical biology.

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### **Maths needed in Chemical Engineering (E02)**

(1982) mentions the early books on applied mathematics in chemical engineering and provides an interesting commentary. To structure our discussion, it seemed desirable to begin with a view of chemical engineering, as well as that of math-ematics

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captured as in Figure 1. In so doing, we have been

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