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School of Engineering, University of Brighton, Cockcroft Building, Moulsecoomb, Brighton BN2 4GL, UK Some new ideas in teaching mathematics to engineering students and the implementation of these ideas into the teaching of mechanical engineering students at Brighton University are discussed.

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Joseph C. Kolecki Glenn Research Center, Cleveland, Ohio Concepts of Mathematics for Students of Physics and Engineering: A Dictionary NASA/TP-2003-212088

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• Innovators creatively use science, mathematics, and technology concepts and principles by applying them to the engineering design process. • Inventors recognize the needs of the world and creatively design, test, redesign, and then implement solutions (engineering process).

Science, Technology, Engineering, and Mathematics (STEM)

mathematics education should not be limited to saying, for example, that understanding the concept of function is a person's mental experience assigning some object to the term 'function'.

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