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**Mathematics for engineering sciences with Mathematica. Vol. I. (Mathématiques pour les sciences de l'ingénieur avec Mathematica. Tome 1.)**

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This work contains applications in mathematics for engineering using the software Mathematica. The following subjects are treated in this book: numerical functions, integral calculus, sequences and series of numbers, sequences and series of functions, vector spaces, linear mappings and matrices, basis of a vector space, elements of geometry, numerical solving of equations, differential equations, multiple integrals, and curves. Some exercises are presented at the end of each chapter.

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*Classification:* H65 I15 N15

*Keywords:* Mathematica; symbolic computation; numerical analysis; approximations; series; sequences; integrals; vector spaces; matrices; elements of geometry; differential equations; curves