

**ZMATH 2016c.00813**

**Howe, Michael**

**Mathematical methods for mechanical sciences.**

Hackensack, NJ: World Scientific (ISBN 978-1-78326-664-7/hbk). xi, 319 p. (2016).

The book under review presents an extensive reference on mathematical topics used in engineering and other mechanical sciences. The methods are presented without explanations, but with many explanatory examples plus additional (unsolved) practice problems. As such, it is of great value for all mathematics instructors who teach university level courses for engineering students. The topics covered are linear ordinary differential equations with various solving methods, vector calculus, complex numbers and functions, partial differential equations of various types often encountered in engineering, special functions, basic matrix algebra with relation to systems of linear equations and basic methods in variational calculus.

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