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***Bonilla y Asociados***  
*desde 1950*



**Título:**

**Autor:**

**Precio:** \$60.86

**Editorial:**

**Año:** 2012

**Tema:**

**Edición:** 1ª

**Sinopsis**

**ISBN:** 9781842657522

MECHANICAL VIBRATION PRACTICE AND NOISE CONTROL stresses the importance of physical parameters of significance associated with vibration and industrial noise and lateral and torsional critical speeds of industrial rotors. Design features of metallic and non metallic isolators, machine foundations, International Standards on noise and vibration. Seventeen case studies on industrial problems solved for process industries and engine diagnostics are very useful to a practicing engineer. Presentation of 3 D beam finite element method and two plane field balancing along with source codes in C and FORTRAN languages and over 100 worked out examples on industrial problems make the book versatile. Hints to exercises will be a priceless possession for students, teachers and professional Engineers.