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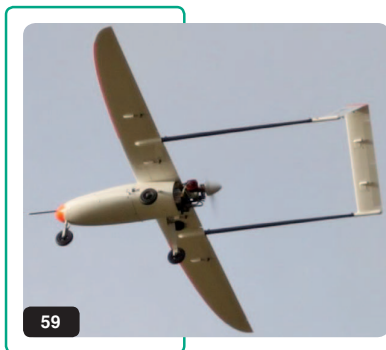T. Ahmed-Ali, I. Karafyllis, F. Giri, M. Krstic, F. Lamnabhi-Lagarrigue
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Cover credit: An exploded view of a modern electronic stethoscope, which is an example of a system with two inputs that must be estimated (force due to handling by the physician and the force that the chest vibrations create on the stethoscope diaphragm). Image courtesy of Rajesh Rajamani.

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