


**Mass balancing using tuned parametric excitation (Technion)****code:** MAE-1530

Mass imperfection in rotating elements and machines causes vibration when the speed of rotation reaches critical speed. This has led to the development of mass balancing machines which identify where mass imperfections lie. Current balancing machines are limited in the attainable speeds of rotation, and on-site balancing is risky and expensive. Our innovation attains an equivalent vibration of the element at high speeds of rotation without having to bring the element to such dangerous speeds. After balancing, the machine can safely operate at high speeds of rotation.

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