

MATLAB SOFTWARE TO COMPUTE THE RESULTANT FORCE AND THE RESULTANT MOMENT OF A SYSTEM OF FORCES

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Abstract: One of the most important problems in engineering consists in obtaining the equations of motion of a rigid body. In order to do this, we must know the resultant force and the resultant moment. The calculus of these vectors is often tedious and, for this reason, appropriate software would be very useful. The paper presents an original MATLAB computer program that computes the resultant force and the resultant moment of a system of forces.

Key words: MATLAB, resultant force, resultant moment.