

fluid mechanics and its pdf

The center of pressure is the point where the total sum of a pressure field acts on a body, causing a force to act through that point. The total force vector acting at the center of pressure is the value of the integrated vectorial pressure field. The resultant force and center of pressure location produce equivalent force and moment on the body as the original pressure field.

Center of pressure (fluid mechanics) - Wikipedia

In fluid mechanics the term static pressure has several uses: . In the design and operation of aircraft, static pressure is the air pressure in the aircraft's static pressure system.; In fluid dynamics, many authors use the term static pressure in preference to just pressure to avoid ambiguity. Often however, the word "static" may be dropped and in that usage pressure is the same as ...

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