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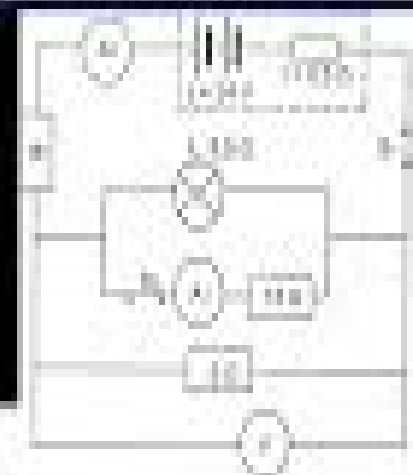


Figure 1: A circuit is shown with a battery of EMF 12 V and internal resistance 1 Ω. The circuit is connected to a parallel combination of a 4 Ω resistor and a branch containing a 2 Ω resistor in series with an ammeter A. A 12 Ω resistor is connected in parallel with the entire circuit. A voltmeter V₂ is connected in parallel across the 12 Ω resistor.

- 1.1 (4 marks)
- 1.1.1 Calculate the current through the 2 Ω resistor.
- 1.1.2 Calculate the power dissipated in the 12 Ω resistor.



- 2.1 (2 marks)
- 2.1.1 Calculate the magnitude of the force F.
- 2.1.2 Calculate the magnitude of the reaction force at the fulcrum.



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