

OCR A-level PHYSICS

2021 Paper 3



The potential difference between the sliding contact and the top of the overhead cable supplies a.c. The motor turns the wheels. The total mass of the train is 2.5×10^6 kg.



Tourists stand in pods around the circumference of the wheel. The floor remains horizontal at all times. At time $t = 0$, a tourist who has a weight W is at the position shown in Fig. 6.2. The forces acting on the tourist are shown in Fig. 6.2. The resultant upward force $(R - W)$ on the tourist is shown in Fig. 6.2. The resultant upward force $(R - W)$ on the tourist is shown in Fig. 6.2.

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Christian Drosten



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