



STEP III, 2005, Q10 EC

- 10 There were a reasonable number of attempts at this question, with some good efficient solutions, but with most candidates giving up when they did not get the required result in (i). This was usually because they had included the work done by friction on only one disc, or because they had not realised that the extension in the band is twice the distance apart of the centres, or because they assumed that there would be no elastic potential energy stored in the band if the two discs were in contact, or some combination of these.



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