

Energy spent in magnetization-demagnetization. In two equally sized pieces of different ferromagnetic materials, a uniform magnetic field is first established, at the same intensity (H_m), and then reduced to zero ($H = 0$), during which process the operating point describes the respective paths shown in Fig.Q7.10. The net magnetic energy spent in the magnetization-demagnetization of the piece in case(a) is

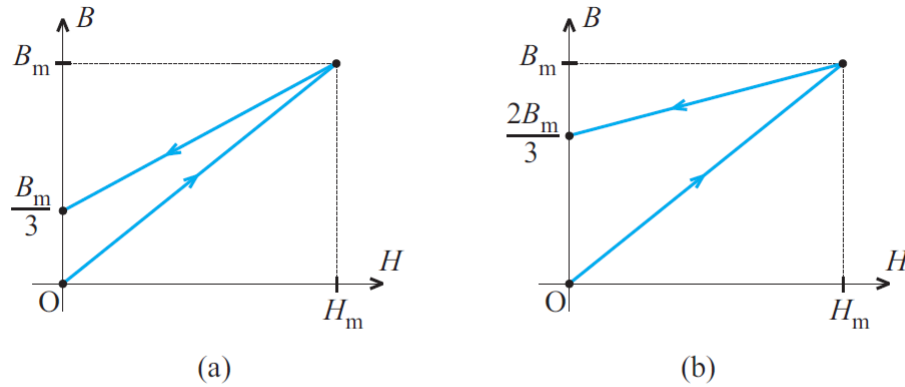


Figure Q7.10 Magnetization-demagnetization of two different ferromagnetic materials; for Question 7.32.

- (A) twice
- (B) three times
- (C) a half of
- (D) a third of
- (E) the same as

that in case (b).

Solution: (C)

Answer: (C)