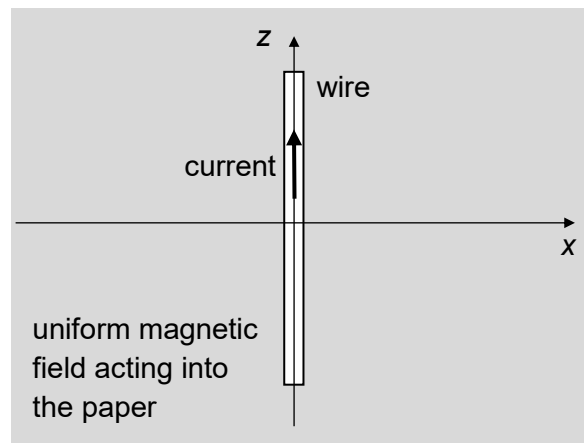


- 24** A wire carrying a current flowing in the positive  $z$ -direction is placed within a uniform magnetic field as shown. The magnetic field acts along the  $y$ -axis into the plane of the paper.



Which of the following independent changes leaves the magnitude of the magnetic force on the wire unchanged?

- A** Increase the current
- B** Increase the flux density
- C** Rotate the wire about the  $x$ -axis
- D** Rotate the wire about the  $y$ -axis