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70 ELECIRIC MACHINERY FUNDAMENTALS In terms of phasor quantities, these equations are  $V_p \sim I_p$ ,  $V_s \sim I_s$  (2-4) (2-5) Notice that the phase angle of  $V_p$  is the same as the angle of  $V_s$  and the phase angle of  $I_p$  is the same as the phase angle of  $I_s$ . The turns ratio of the ideal transformer affects the magnitudes of the voltages and currents, but not their angles.

## Electric Machinery Fundamentals, 4th Edition

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DC MACHINERY FUNDAMENTALS ... 476 ELECTRIC MACHINERY FUNDAMENTALS I. Segment abo In this segment, the velocity of the wire is tangential to the path of rotation. The magnetic field  $B$  points out perpendicular to the rotor surface everywhere under the pole face and is zero beyond the edges of the pole face.

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534 ELECTRIC MACHINERY FUNDAMENTALS ,b, "FIGURE 9-1 Early dc motors. (a) A very early dc motor built by Elihu Thompson in 1886. It was rated at about 1/2 hp. (Courtesy of General Electric Company.) (b) A larger four-pole dc motor from about the turn of the century. Notice the handle for shifting the brushes to the neutral plane.

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Electric Machinery Fundamentals continues to be a best-selling machinery text due to its accessible, student-friendly coverage of the important topics in the field. Chapman's clear writing persists in being one of the top features of the book. Although not a book on MATLAB, the use of MATLAB has been enhanced in the fourth edition.

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268 ELECTRIC MACHINERY RJNDAMENTALS o 0, s End View Side View fo'IGURE 5-1 A non salient two-pole rotor for a synchronous machine. nonsalient pole is a magnetic pole constructed flush with the surface of the rotor. A nonsalient-pole rotor is shown in Figure 5-1, while a salient-pole rotor is shown in Figure 5-2. Nonsalient-pole rotors are nonnally used for two-and four-pole ro

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