



**Figure 27.6** The execution of the basic Ford-Fulkerson algorithm. (a)–(d) Successive iterations of the **while** loop. The left side of each part shows the residual network  $G_f$  from line 4 with a shaded augmenting path  $p$ . The right side of each part shows the new flow  $f$  that results from adding  $f_p$  to  $f$ . The residual network in (a) is the input network  $G$ . (e) The residual network at the last **while** loop test. It has no augmenting paths, and the flow  $f$  shown in (d) is therefore a maximum flow.