

FIGURE 2.4 SIMPLE SHEAR DEFORMATION. . . In order to do this, we will look at the most important and easiest failure modes first, simple shear stress. Simple shear stress is a failure mode where the load is concentrated along a plane that has little to no offset from the current stress state. To show this, we can examine the mode I deformation and the deformation of the mode II free ebook. A simple shear stress example is shown in Figure 2.5. The mode I deformation is shown above, and the mode II deformation is shown below. The mode I deformation includes a region of plastic deformation (the shear band) as well as a region of elastic deformation. The mode II deformation is in the elastic region of the deformation and is shown in detail in Figure 2.5A. As the stress increases, the shear band widens, as shown in Figure 2.5B. And as shown in Figure 2.5C, as the shear band widens, the load is shifted from the shear band and into the elastic region. This is called a free ebook. As the stress is increased, the shear band will deform and the load will be pulled from the shear band into the elastic region. The load is no longer distributed along the plane that the load is applied in but is distributed along the current stress plane. In this case, the stress plane is the shear band itself. This process of pulling the load from the shear band into the elastic region is called a free ebook. This is important because the load is being pulled away from the shear band and into the elastic region where the deformation is still in the elastic region, and this is called a free ebook. This free ebook will start to occur once the shear band starts to widen due to the load and starts to pull away from the current stress plane. The load will start to pull away from the shear band and into the elastic region. As the load is pulled away from the shear band, the load will distribute through the elastic region, so the shear band

will become wider. This is called a free ebook. Once the load has been pulled away from the shear band, the load will distribute to other planes and move into the plastic region. As the load is distributed to the other planes, the shear band will start to deform. If the load is distributed far enough, the shear band will

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