

3.032 Mechanical Behavior of Materials

Fall 2007

Brittle fracture:

Images removed due to copyright restrictions. Please see:

[1] SEM SE of alumina, 1500x

<http://www.imrtest.com/cms/repository/media/IGAfracture.jpg>

[2] SEM SE of ductile cast iron

http://www.sv.vt.edu/classes/MSE2094_NoteBook/97ClassProj/exper/bailey/www/fig2.jpg

[3] ESEM SE of polyethylene/polyacrylate alloy

http://www-ipcms.u-strasbg.fr/IMG/jpg_fracture_alliage2.jpg

[4] ESEM SE of polyethylene
impact test surface

http://www.fys.uio.no/faststoff/coop/coopphen_book97/images/fabrice8_low.jpg

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Ductile fracture:

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<http://www.mssmat.ecp.fr/IMG/gif/AlSi1.gif>

<http://www.adirondackenvironmental.com/images/Ductile-Fracture.jpg>

<http://www.ca.sandia.gov/8700/files/3.2.2.3a.gif>

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Ductile fracture mechanism:

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<http://www.jwave.vt.edu/crcd/farkas/lectures/Fract1/fig2.gif>

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Brittle vs. Ductile fracture:

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<http://www.jwave.vt.edu/crcd/farkas/lectures/Fract1/fig3.gif>

http://www.nrl.navy.mil/Materials/images/hull_ship.jpg