

Let's examine plastic formability of metal

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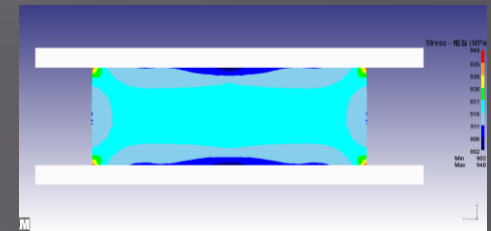
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303 Material Science and Engineering Education and Research Building (B01)
(Oikawa research group's room)

Forging is a manufacturing process to form metallic materials into desired shape by hammering or pressing. Forming is used when producing various items including components of cars, electric appliance, components of machines, electronic parts. Crack is a one of forming defects and it should be avoided.

In this class, formability of metal and friction between metal and die will be measured. Let's discuss how we can avoid crack by investigating the influence of lubrication and shape on formability.

Low friction



High friction

