

# Fundamental Equations of Mechanics of Materials

## Axial Load

Normal Stress

$$\sigma = \frac{N}{A}$$

Displacement

$$\delta = \int_0^L \frac{N(x)dx}{A(x)E}$$

$$\delta = \sum \frac{NL}{AE}$$

$$\delta_T = \alpha \Delta T L$$

## Torsion

Shear stress in circular shaft

$$\tau = \frac{T\rho}{J}$$

where

$$J = \frac{\pi}{2} r^4 \quad \text{solid cross section}$$

$$J = \frac{\pi}{2} (r_o^4 - r_i^4) \quad \text{tubular cross section}$$

Power

$$P = T\omega = 2\pi nT$$

Angle of twist

$$\phi = \int_0^L \frac{T(x)dx}{J(x)G}$$

$$\phi = \sum \frac{TL}{JG}$$

Average shear stress in a thin-walled tube

$$\tau_{avg} = \frac{T}{2\pi A_m}$$

Shear Flow

$$q = \tau_{avg}t = \frac{T}{2A_m}$$

## Bending

Normal stress

$$\sigma = \frac{My}{I}$$

Unsymmetric bending

$$\sigma = -\frac{M_x y}{I_x} + \frac{M_y x}{I_y} \quad \tan \alpha = \frac{I_x}{I_y} \tan \theta$$

## Shear

Average direct shear stress

$$\tau_{avg} = \frac{V}{A}$$

Transverse shear stress

$$\tau = \frac{VQ}{It}$$

Shear flow

$$q = \tau t = \frac{VQ}{I}$$

## Stress in Thin-Walled Pressure Vessel

Cylinder

$$\sigma_1 = \frac{Pr}{t} \quad \sigma_2 = \frac{Pr}{2t}$$

Sphere

$$\sigma_1 = \sigma_2 = \frac{Pr}{2t}$$

## Stress Transformation Equations

$$\sigma_x' = \frac{\sigma_x + \sigma_y}{2} + \frac{\sigma_x - \sigma_y}{2} \cos 2\theta + \tau_{xy} \sin 2\theta$$

$$\tau_{x'y'} = -\frac{\sigma_x - \sigma_y}{2} \sin 2\theta + \tau_{xy} \cos 2\theta$$

Principal Stress

$$\tan 2\theta_p = \frac{\tau_{xy}}{(\sigma_x - \sigma_y)/2}$$

$$\sigma_{1,2} = \frac{\sigma_x + \sigma_y}{2} \pm \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2}$$

Maximum in-plane shear stress

$$\tan 2\theta_s = -\frac{(\sigma_x - \sigma_y)/2}{\tau_{xy}}$$

$$\tau_{max} = \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2}$$

$$\sigma_{avg} = \frac{\sigma_x + \sigma_y}{2}$$

Absolute maximum shear stress

$$\tau_{abs} = \frac{\sigma_{max}}{2} \quad \text{for } \sigma_{max}, \sigma_{min} \text{ same sign}$$

$$\tau_{abs} = \frac{\sigma_{max} - \sigma_{min}}{2} \quad \text{for } \sigma_{max}, \sigma_{min} \text{ opposite signs}$$

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web quand on parle de mode au japon on voit premièrement le traditionalisme pur une valorisation du style authentiquement japonais ce style est généralement composé des kimonos du jinbei du haori du yukata sans oublier le hakama qui est un pantalon

*la mode au japon mode japonaise toriaezu japon* - Mar 16 2022

web nov 29 2018 la mode au japon mode japonaise la mode japonaise on aime ou on aime pas certains sont des fans absolus influencés par les dramas la pop culture et les mangas quoi que pour les dramas et la musique le japon est en train d'être détroné par la corée certains ont l'image d'asiatiques avec la coupe de mireille mathieu et sont

**habillement japonais wikipédia** - Jul 20 2022

web de façon générale il existe deux styles de vêtements que les japonais portent le style japonais 和服 wafuku tel que le kimono et le style occidental 洋服 yōfuku

*la mode au japon entre art de vivre et codes sociaux* - Oct 23 2022

web sep 28 2021 la mode au japon entre art de vivre et codes sociaux À partir du xviie siècle japonais et japonaises se parent de tenues variées et plus ou moins élaborées un choix qui n'est pas libre car le vêtement reflète alors la condition sociale

**harajuku style street fashion japonaise univers du japon** - Nov 23 2022

web jun 26 2023 le style harajuku ou street fashion japonaise tire son nom du quartier du même nom situé dans l'arrondissement de shibuya à tokyo dans les années 1970 le quartier harajuku devient le temple de la mode du rock et de l'avant garde prêt à plonger dans cet univers de la mode nippone complètement délirant

*mode japonaise comment s'habille t on au japon kanpai* - Oct 03 2023

web réputé pour ses styles vestimentaires les plus excentriques le pays sait aussi mettre en avant ses costumes traditionnels l'on croise régulièrement dans les rues des villes des femmes en kimono marchant avec des geta ou zori sandales japonaises en

la mode actuelle au japon et son origine kimono japonais - Jun 18 2022

web jun 9 2020 la mode actuelle au japon et son origine par crm agency 9 juin 2020 la mode au japon les japonais sont très attachés à leur apparence vestimentaire car le style porté reflète une partie du caractère ou de l'humeur de la personne

*mode japonaise 9 marques émergentes à découvrir hypebeast* - Apr 28 2023

web mode mar 18 2020 text by alexandre pauwels le japon regorge de marques en particulier streetwear et au delà de l'offre établie et des enseignes de premier ordre qui la drivent des labels

**tokyo fashion week comment s'habillent les japonais vogue france** - Feb 24 2023

web aug 31 2021 de la tradition à la création la fashion week de tokyo inspire le monde de la mode pointus et toujours plus créatifs jeux de superpositions splashes chromatiques ou silhouettes full black les rues japonaises nous dévoilent une mode conceptuelle qui se mêle à la tradition avec leur manière unique de voir la mode ils continuent

**mode du monde 15 styles branchés inspirés du japon** - May 18 2022

web sep 7 2021 la mode japonaise affiche plusieurs facettes un look sobre chic épuré et uniforme contre des tenues excentriques colorées flashy et très accessoirisées de quel côté vous rangerez vous voici en tout cas quelques inspirations de styles japonais très tendance qui ne passeront pas inaperçus copiez la mode du japon

**montgomery ward hercules 410 single shot shotgun** - Apr 16 2022

web offered for sale is a montgomery ward hercules 410 single shot shotgun the shotgun features a case hardened receiver

montgomery ward firearms gun data - Nov 11 2021

web sold firearms manufactured under the following models model manufactuer s name

montgomery ward hercules for sale guns com - Feb 24 2023

web montgomery ward hercules for sale guns com guns com firearms shotguns single shot montgomery ward hercules

what is the value of a montgomery wards model 1929 hercules shotgun - Dec 13 2021

web sep 11 2023 we cant verify the sd108 model number however the hercules was the trade name used by the iver johnson arms and cycle works on shotguns made for the montgomery ward co of chicago

**montgomery ward hercules shotgun 410 rock island auction** - Jun 18 2022

web sep 12 2009 description double ivory bead sights on a solid rib standard markings casehardened action double triggers extractor and tang safety checkered pistol grip stock and forearm the buttplate is missing length of pull is approximately 13 3 8 rating definition very fine

montgomery wards hercules shotgun 16 gauge - Aug 21 2022

web support the nra and protect your 2nd amendment freedom in 2020 with this montgomery wards hercules shotgun 16 gauge this blast from the past is a hercules one of many trade guns sold by montgomery wards trade guns were firearms produced by a major manufacturer and branded with a name specific to a

**what is the history of the montgomery ward hercules shotgun** - May 18 2022

web sep 27 2023 100 what was the original price of an ward hercules 20ga double barrel shotgun 2 6 usd or so was there a hercules side by side shotgun ever made manufactured by iver johnson or j

**hercules by montgomery ward model 1929 single shot shotgun** - Jul 20 2022

web hercules by montgomery ward model 1929 single shot shotgun in 410 gauge nice 8658132 this auction has been viewed 289 times buyer tip seller assumes all responsibility for listing this item

montgomery ward hercules for sale guns com - Apr 28 2023

web listed is a pre owned montgomery ward hercules single shot shotgun chambered in 410 this shotgun is in fair condition overall the mechanism locks up well and doesn t have any wobble

**montgomery ward co hercules double shotgun forum** - Jun 30 2023



web apr 26 2012 it is a montgomery ward co hercules double i do not have a picture so i am not familiar with the specific physical features but i do have the markings they are montgomery ward co hercules patent apr 20 1915 the top of the barrel has a proof tested 12 ga mark

**info wanted on my hercules 16 gauge shotgun pics inside** - Sep 21 2022

web apr 12 2009 hi long time lurker on this forum i picked up this shotgun today it has hercules montgomery ward markings and it s a 16 gauge it doesn t have a serial number and it s over 50 years old that s all i know can anyone provide more info on those shotguns is there online resources that can help me get some history on this brand

**this old gun ward s western field model 10 american rifleman** - Mar 28 2023

web the single shot shotgun reigned supreme in the first half of the 20th century and this ward s western field model 10 is evidence of the hard use these budget guns saw

montgomery ward co 1929 hercules 410 ga proxibid - Oct 23 2022

web montgomery ward co 1929 hercules 410 ga single shot shotgun very good 26 barrel shiny bore tight action features blued plain barrel with brass bead receiver is case hardened with color still visible shotgun

**montgomery wards hercules shotgun price and** - Jan 14 2022

web summary for sale 0 sold 0 charts what is a montgomery wards hercules shotgun worth a montgomery wards hercules shotgun currently has too little sold data to calculate an average price the demand of new montgomery wards hercules shotgun s has not changed over the past 12 months

hercules new and used price value trends 2023 true - Oct 03 2023

web 106 00 used other model montgomery ward hercules shotgun 20 ga 28 sold location lebanon oh 45036 sold date 10 9 2023 12 00 00 am 230 00 used iver johnson hercules 32 barrel 2 75 12 ga fixed mod full sxs shotgun other length sold location twin falls id 83301 sold date 10 5 2023

**montgomery ward co hercules 410 shotgun** - Dec 25 2022

web montgomery ward co hercules 410 shotgun description proof tested 410 gauge side by side double barrel shotgun with 26 inch blued barrels with a raised solid rib with a front bead and mid bead sight double triggers top tang mounted safety case hardened receiver with strong colors checkered wood forearm and pistol grip stock are

**hercules montgomery ward sxs shotgun forum** - Sep 02 2023

web dec 12 2012 the only markings on it are hercules montgomery ward co pat april 20 1915 on the left side of the receiver and pat applied for on the right side it has a single non inertia trigger and a single extractor not ejector the only markings on the barrel read proof tested 12g

montgomery ward co hercules model 12 ga shotgun - Mar 16 2022

web caliber 12 ga s n 60923 brl length 30 good plus condition break action select forged steel barrel with a bore that shines very bright having a single bead front sight and factory bluing that shows some light freckling spotting and very minor thinning on the muzzle the receiver frame shows some traces of case coloring and freckling with

**stevens wards hercules model 10 16 ga single shot break action shotgun** - May 30 2023

web jul 26 2011 description stevens wards hercules model 10 16 ga single shot break action shotgun with 30 in mod choke bbl this is a stevens 94a badged and sold by montgomery ward back in the day as a wards hercules model 10 the bore is not bright the forearm is not secure and the barrel has a distinct upward bend so who are we

*hercules 12 gauge shotgun forum* - Feb 12 2022

web oct 31 2012 the guns were made for and sold by the montgomery ward company a retail chain store with offices in chicago il this gun can be identified as have been made by stevens

montgomery ward co hercules 20 ga shotgun forum - Nov 23 2022

web apr 2 2008 montgomery wards never made a gun they sold guns from a lot of different makers your hercules is the wards version of some gun with a famous name if you d tell us if it s a pump single shot or double barreled side by side it would help also if you tell us exactly all the words stamped on the barrel it might help

montgomery ward hercules guns international - Jan 26 2023

web montgomery ward hercules description guns listing id 649357 used needs to be cleaned ay sold manufacturer montgomery ward model hercules condition used non certified barrels 30 barrel gauge info 16 ga finish blue

information on hercules the firearms forum - Aug 01 2023

web mar 16 2009 receiver left side hercules nothing else on the exterior receiver inside left rail 99 55 8 i don t know if any of this leads to the model number don t know what guage who this was made for montgomery ward etc this shotgun is as plain as anything i have ever seen nothing ornate