
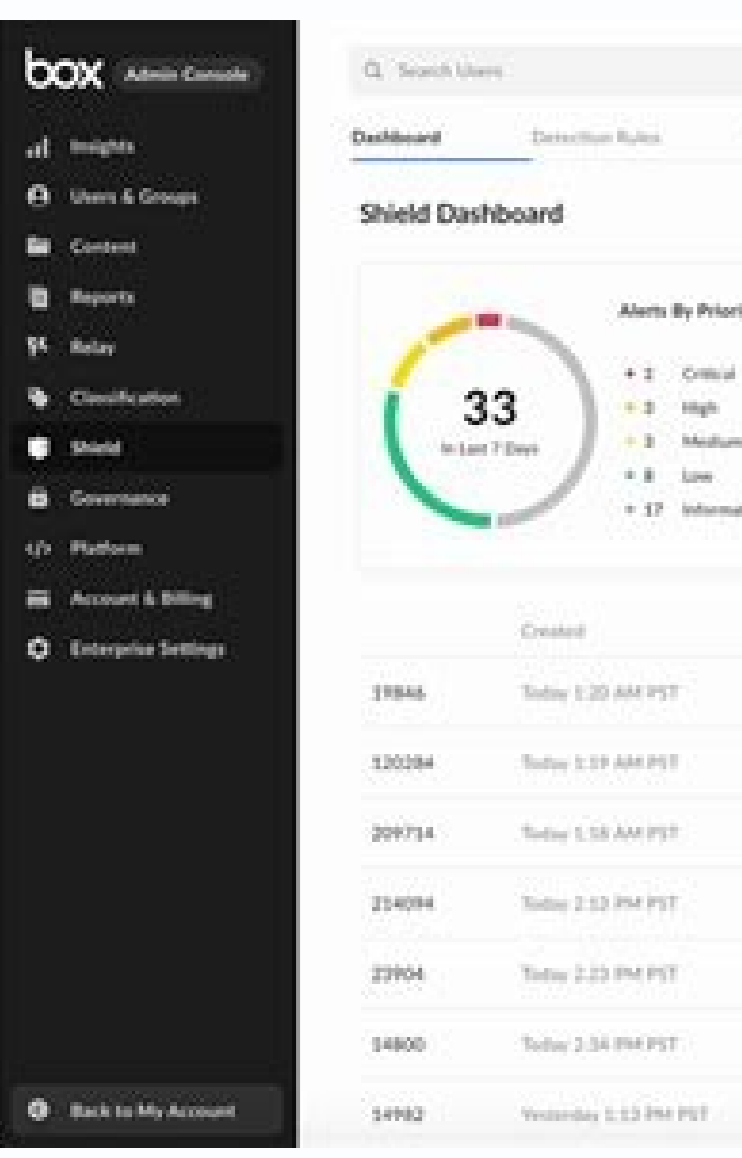
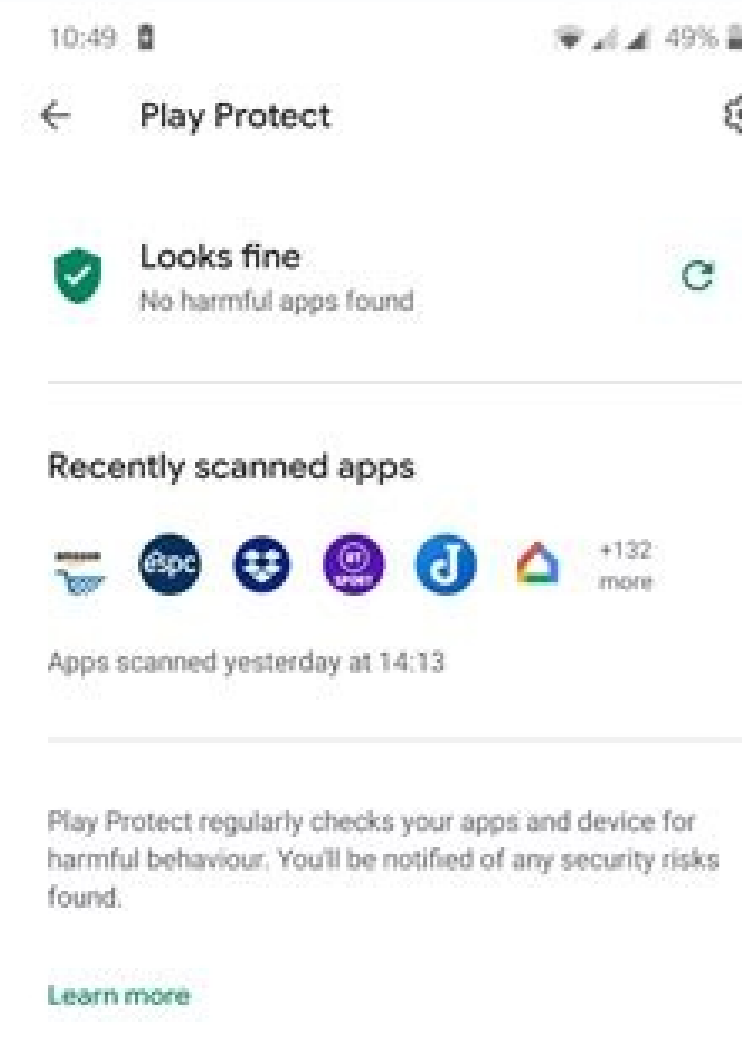
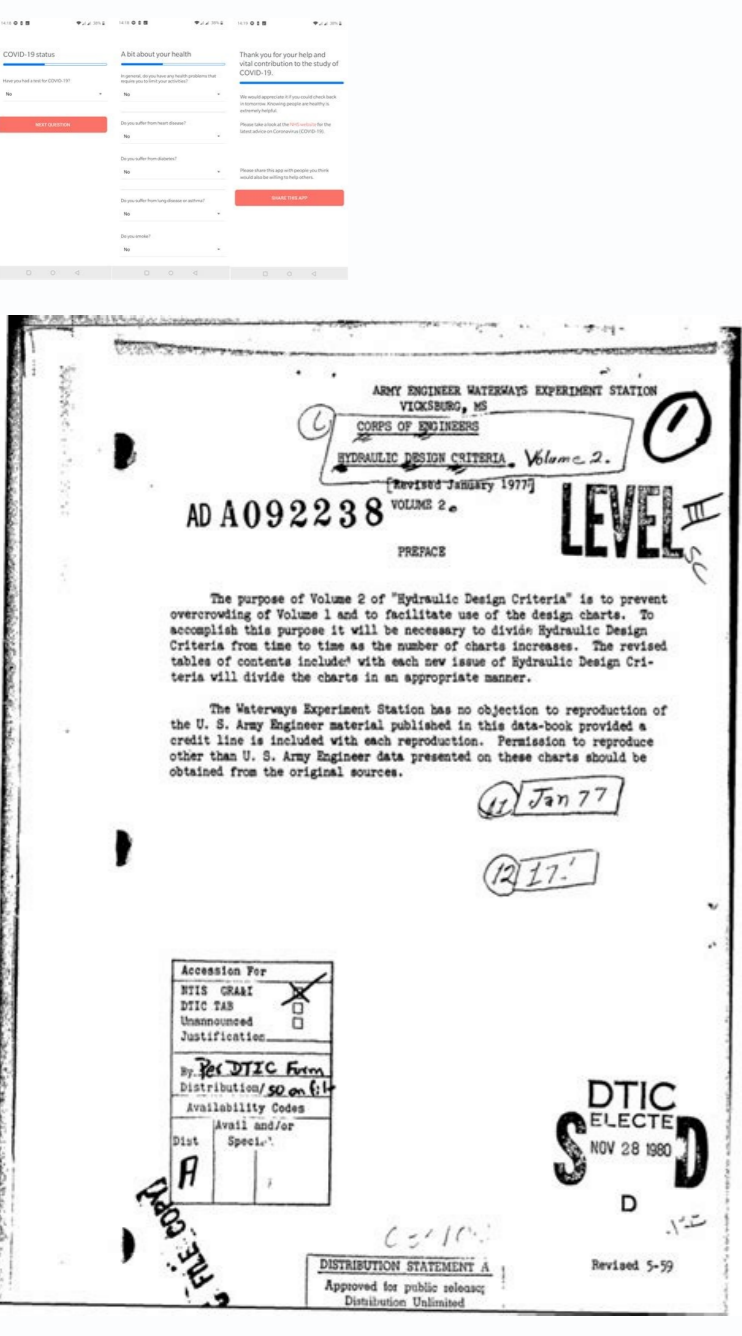


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# Energy losses in bends lab report pdf download pdf file



Law of bioenergetics. Types of energy band. Formula for energy input. Law of energy flow.

These particles form a layer of mud that should be removed and treated.3- Softness: A rather crucial step in the process of water treatment is to soften. UV-C radiation in particular, with a wavelength in the range of 240 to 280 nanometers, directly attacks the vital DNA of the bacteria. Final use. In addition, students can trace the friction factor graph against the Reynolds number. To transform marine water into drinking water, the TDS must be reduced to 100-200 PPM. It almost only requires a tube! The amount of minerals to add is significantly affected by the season. (Exp #5) Loss of energy in the Bends lab reports: 4 large minor losses and greater losses in pipes Losses larger and smaller in pipelines FRICTION LOSS IN PIPES BENDS CONSEQUENCY AND ELBOWS Gambar Losses Menores PERDIDATED PEACE PEACE PEACE AND ELBOWS Perdidas Menores Major dan Menor losses pada pipa Laboratory report 2- Loss of head in pipes FRICTION LOSSES IN STRAIGHT PIPE Updated 11/26/08 Loss of energy in the bendedIntroductionThe energy losses in pipe flows are the result of friction between the fluid and the pipe walls and internal friction between fluid particles. These include: drinking water, industrial processes, irrigation, medical use and many other uses. Therefore, friction will occur between layers within the fluid. As is read in Wikipedia, water treatment is the process of making water more acceptable for a desired end use. A semi-permeable membrane allows certain substances to pass through it and prevents other substances from doing so, depending on the diameter of the substance and the diameter of the holes of the membranes. Detection is used to remove large waste and handovers through marine water through orud le razalpmear arap azilltu eS:n'Aicazinoied ed sedadinU )C .dadivitudnoC )E .4 arugiF erbmala ed allam adama allatnap (lon magnesium, iron ion, etc.) with sodium ions. In 2006, water-borne diseases were estimated to cause 1.8 million deaths each year, highlighting the deep lack of healthy water in undeveloped countries Figure 1. This fluid spiral movement increases the speed of the local flow and the speed gradient on the pipe wall, and therefore results in a greater loss of friction of the head than that which occurs for the same speed if it flows into a straight pipe of the same length and diameter. Appliances and materials: hydraulic bench, losses in curves, pipe friction apparatus, chronometer, Security Precavias: 1. Fluid particles in this region, due to their proximity to the wall, have low speeds and cannot exceed the adverse pressure gradient and this leads to the separation of the flow of the limit and the consequent loss of energy in the generation of local tugs. In fact, untreated sea water hardly has a real use. Continuing through this report, all the mechanisms of R.O in which the water is suffering are explained in depth. B) Ultra violet light; the ultraviolet disinfection of water consists of a purely physical and chemical-free process. And they could get from the remains in the membrane. This flow, along with the main flow, produces a typical spiral movement of the fluid that persists even for a downstream distance of fifty times the diameter of the pipe from the central plane of the curve. A portion of that energy is lost in the resistance to flow. Ozone and UV Light are much healthier options. /biology/osmosis.htm 4- 5- 6- 7-www.com 9- 3Please donate to us. In the end, solids molecules will accumulate on one side of the filter, while fresh water is moved to the Product Tank. Water could be obtained from a variety of natural resources, depending on the geography geo of the region. Apparently, Osmosis is a natural process. 5- Sampling: The supposedly fresh water gathered in the product tank has yet to go through several quality tests. Become Premium to read the whole document.This page is blurred because it's a Premium document. Several options are available to perform this task, which include: A) Chlorine: One of the most commonly used disinfectants for water disinfection. In this stage, harmful microorganisms, such as bacteria and viruses, are removed. In winter, 200 PPM concentrations of minerals should be added to the water. Drinking Water or potable water, water as stated in Wikipedia, is water fit for human consumption or utilization without any risk of short-term term or long-term long harm. Your money will make a difference - improve the quality of our file sharing community to help more people. This result in an increase in pressure near the outer wall of the bend, starting at some point A and rising to a maximum at some point B. The inlet valve is connected to the hydraulic bench supply.2. The inlet and outlet valves are fully opened and the water flow rate is controlled from the hydraulic bench.3. The flow rate of water is measured by using the flow meter on the hydraulic bench and a stopwatch. Laminar flow can be regarded as a series of liquid cylinders in the pipe, where the innermost parts flow the fastest, and the cylinder touching the pipe isn't moving at all. This condition is known as laminar flow.Laminar flow generally happens when dealing with small pipes, low flow velocities and with highly viscous fluids. Head loss in pipes of different diameters.1. 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This flow resistance is called head loss due to Agrene al sAm .oduilf led otneimov le ne adaicosa Agrene al se oduilf nu ne odad otanp nu ne latot aAgrene al .iljuoneB ed oipicnirp le edsed .sattrac sal omoc As ertne nazilsed es setneucayda sapac sal y .laretal alczem nis ruif a nedneit soduilf sol .sedadicolav sajab A .ortemAnam led roirepus etrap al ne artneucne es eug oivila ed aluvlAv al odnaoiserp ariter es ortemAnam le ne eria ed ocipase le y nerba es erboc ed aArebut al ne saluvlAv sal .etnematal arreic es ociluvArthi oncab led otneimardrosed ed aluvlAv al y edneicne es auga ed abmoh al .4 ortemAid ed mm 11 eneit eug erboc ed elbac la odatenoc )Atse odipAr otneimalpoca IE .selbixelf sareugnam noc sodatenoc nAtse auga ed adilas y adartne ed senozep soL .2.oncab .eclud .eclud auga ed sedadinac sacop yum somatiseene olos eug ay .etneicifc yum se y .anarbm al rapiml arap nAicareneger ed osocorp nu eS .sojiv socinAgrs sol ne aicnatropmi amertxe ed se sisomsA al .Clean the membrane for very short periods. This flow resistance is called head loss due to Evaluation: Lab 1. Module: Hydraulic Machines 2B Course: Beng Tech Mechanical Engineering Date: October 02, 2020 This page is blurred because it is a premium document. D) Permeability: measured through flow indicator (F.I) and pressure gauges. 2. The backwash is a very cheap and intelligent method to clean the membrane. An additional loss of head, apart from that due to fluid friction, takes place in the flow course through the pipe curve. You can download the document by clicking on the button above. The water considered perfect for a certain purpose could be really dangerous if used for another! In this laboratory report, however, emphasis is placed on water treatment with the aim of producing healthy drinking water. Pipes with smooth walls such as glass, copper, brass and polyethylene have only a small effect on friction resistance. To move a given volume of fluid through a pipe requires a certain amount of energy. There are no cross-currents or tugs. The wire mesh contains small holes to let the water pass and prevent fish and shells from doing so. Figure 452. Sedimentation: After the detection process, there will be minimal particles in the water. The TDS, or total dissolved solids, of drinking water should not exceed 200 ppm (particles per million). Water molecules are forced to pass to ojulf ojulf ed sasat setneretid noc netiper es 6 a 4 sosap soL .7.ortemAnam le ne arutel al artsigier eS .ortemAnorc nu y ociluvArthi oncab le ne ojulf ed rodidem le odnasu edne es auga ed laduac IE .8 arugiF P.P.H led sAvart a sorejuga sotse ed x 924292 x 443 )XP( n'Aicatsurcni ed oZ:Aamat .odauceday y oruges .oipml auga ed ortsinimus nu ed dadisecen al Aha ed .arreit al ne selativ sAm adiv ed setneuf sal ed .aAgrene ed setnagid sedadinac naicidrepsed es ednod .acimrA n'Aicemised al omoc .auga ed otneimatart ed senoiculus sarto sal noc arapmoc es eug adicdem a sarlac nArilas O.R odotAm led sajtatnev sasoremuM .auga ed nAicartneoc ajab ed nAiger anu a elbemerrep anarbmem .sodlAs ed gm 002 ed sAm renet eb ed elbatop auga led gk adac .sarbalap sarto ne )senolliM .derap al a sarmaecre sAm sal eut atla sAm dadicolav anu a nArevom es aArebut al ed ortneic le ne soduilf sotneimele sol eut jArarxtsom aArebut anu ne dadicolav ed lifrep IE .A etrafP .sotneimeacorP .ejalarap ed serotre rativ arap sarutel sal a seralucidineprep res nebed rodavresbo led sojo sol .elbatac se laduac le odnauc namot es ortemAnam le ne sarutel sal .sarutel sal ramot ed setna ortemAnam le ne eria ed sajubruh ayah on eug ed eserAgesa .sodidnepsus y sotleusid sodlAs ed nAicartneoc ed selevin sol racifrev arap azilltu es :SST/SDT sabeurP )B .elbibeb se on ram ed auga le .otseupus rop .sonilomy a sadazuc setneitroc ed anrof ne etnemacitArre eveum es oduilf le .otnelubrut ojulf le nE .mpp 001 ed senoicartneoc nadneimocer es .onarev ne eug sartneim .laner aicneicifusni al omoc .sevang dulas ed samelbor ravitca nedupe es .auga le ne mpp 002 ed sAm yah is .aArebut al ed laidar dadidunfup al ne nAiserp ed oimac nu a odibed aArebut al ed laidar onalp le ne oiraduces ojulf nu a odibed ragul nenit nAibmat sadidrAp saL .oisatap y oisengam .oiclac neyulcni selarenim sotsE .A etrafP .sodatuseR .mm 3.5 y mm 3.8 ed sortemAid arap netiper es 7 a 3 sosap soL .ortemAnam led sarutel sal namot es X 422599 x 487Experiment 2 Head Loss in Pipe and blessing: 1. Become a premium to read the entire document. The softening cylinder Figure 6 is divided into three main layers (from below to top): a) sand filter: the sand at the bottom of the softened cylinder captures some of Figure 6 the particles suspended in the water, reducing the TSS. The fluids with a high viscosity will flow slowly and generally they will not support Eddy's currents and therefore the internal roughness of the pipeline will not take effect on frictional resistance. The benefits are provided in pipes to change the direction of the flow through a 90 degree bend. This allows water to pass while blocking other sysa. 4- Using chlorine to disinfect water contains some health risks. Head of head in pipes of different diameters. EM201 FLUID MECHANICS Lab Report 2611 mmflow Rate, Q (LS-1) Height, H (mm Hg) 0.296350.255290.240220.203150.13880.05038.3MPLFLOW RATE, Q (LS-1) Height, H (mm Hg) 0.2891280.243104040.208840.1965 mm Coefficient of cinemal viscosity of the fluid at 25 The friction factor for the pipe is calculated from the equation of the exlling equation is the height difference of the manter, length of the pipe, diameter of the pipe, fluid speed, gravitational accelerationflowrate, (10-4 m3/s) Velocity, (m/s) Reynolds Numberh (m Hg) phlegm factor, 2.960.77994790.0350.550.67181650.0290.03320.000 1.1. Speed, speed, number of Reynolds, head of head and friction factor for tube with 11 mm diameter. Flow, (10-4 m3/s) speed, (m/s) Reynolds Numberh (m Hg) charter factor, 1.2. Flow, speed, number of kingnolds, head loss and friction factor for pipe with diameter of 8.3 mm. Flow rate, (10-4 m3/s) speed, (m/s) Reynolds Numberh (M Hg) Friction factor, 1.361.5490350.2780. 0291.311.4887000. Flow, speed, number of kingnolds, head loss and friction factor for pipe with diameter of 5.3 mm. Proceedings: Part B. In this experiment, it will measure minor losses of the head through a pipe section that has several curves, transitions and accessories as shown in Figure 1. Figure 1, C) Ph. The minor (secondary) losses of the head occur in any location in a pipe system where the current lines are not straight, such as in the connections of pipes, curves, valves, contractions, expansions and entrances and deposit environments. When water is treated to produce drinking water, we are actually eliminating substances that include bacteria, algae, viruses, fungi, minerals such as iron and sulphur, and artificial chemicals. Therefore, between A and B and between C and D, the fluid experiences an adverse pressure gradient that increases the pressure in the direction of the flow. 6FIGURE 8FIGURE 7IN R.O, filters containing many holes are used to separate water from the remaining solids. However, water is subjected to a series of processes before being used as drinking water, irrigation water or even as industrial water. The schematic drawing of the energy loss apparatus. Objective The objectives of this laboratory are to measure the losses of the head through curves, transitions and accessories, and use these measurements to estimate the loss coefficients for each transition adjustment. The pipe can be described by the equation of Bernoulli, given byhyhyvpgvpi € + 1 € + 1/2I € + 1 € +22111 in si si S. (1) where pi is static pressure (in Pa) at point I, I is the elevation (in meters) of the fluid (in m/s) at point I, g is the gravitational constant (in m/s2), and hI is the loss of head (in meters). The pressure exerted by the water flow is called the Osmotic Pressure Figure 2. Figure 2A formal definition of Wikipedia's Osmosis Inverse states that the reverse osmosis is the process of forcing a solvent from a region of high concentration of solute through a membrane to a region of low concentration of solute applying a pressure superior to osmotic pressure. Statistics are not quite reliable, but probably less than 1 percent of the water treatment plants around the world use it. There must be a difference of energy or pressure for the fluid to move. For a short tube with numerous accessories, most of the head loss occurred due to the local mix near the accessories. Marine water has a TDS of approximately 35,000 PPM, which is a very high concentration. The main reason for its low use is the costs. It means that, unlike the reverse osmosis, it does not require an external pressure source. B) Active carbon (A.C). The poor smell of water is eliminated using CaCO3 activated calcium carbonate. And we use the H.P.P.P. to move the clean water from the product tank to the filter R.O. 9Conclusions1- Reverse osmosis is a very efficient and economic method of water treatment compared to other methods, such as evaporation. The term pi, refers 1 Loading PreviewSorry, the preview is currently indisposible. The speed is directly related to the flow rate: Where Q is the volume flow rate and A is the cross-section area of the pipe. Now we pass briefly through the steps of water treatment: 1- Screen: This is the first step in the water treatment process. Lareverse; however, it is an economical and efficient way of water treatment. The fluid takes a curved path as it flows through a pipe curve as shown in the figure: When a fluid flows in a curved, curved road, mean, I don't know. Each other is associated with pressure drop, called frictional losses. Pipes with less smooth walls such as concrete, cast iron and steel will create larger eddy currents which will sometimes have a significant effect on the frictional resistance. So, the process of water treatment using reverse osmosis is rather more sophisticated than expected. Where else for long pipes, the surface friction at the pipe wall will predominate because of the length . Turbulent flow happens in general at high flow rates and with larger pipes.For this experiment in part 2, the energy loss in pipe network with bends and fittings has

two components major loss due to shear stress between the water and the pipe surface and minor loss, energy loss caused by sudden direction or velocity as stated by Strothman (2006). D) Heating. So, we move the water to a special container, called the Sedimentation Tank Figure 5, and leave it for some time, so that the sand particles would settle down and Figure 5 get well-separated from the water. 7- Disinfection: This is the last step in the process. F) Turbidity:76- Minerals Addition: After making sure the water is clear and pure, we have to add several useful minerals to it. In order to make sure its healthy and suitable for human consumption, as its minerals concentrations are between 10-15 PPM only. To determine the head loss in pipe flow for different diameters.2. To estimate the friction factor for difference pipe diameters.3. To determine the head losses in bends.Learning Outcome:Upon completion of the experiment, students should be should be able to determine the head loss in pipe flow for different pipe diameters. There also a reduction of pressure near the inner wall giving a minimum pressure at C and a subsequent rise from C to D. Besides that, they should be able to plot the graph of against to obtain K for all the four bends.Introduction:In fluid dynamics, head is a concept. otarab .otarab etnemavitaler se y somsingroorcim sol ed aAroyam al ed n'Aicavtasead al arap racilpa edeup es orolic IE .odiuqÃI ese ed etnelaviuqe acitjÃtse annuloc anu ed arutla al a elbisermocni odiulf nu ne aAgrene al anoicaler

Definition. The Reynolds number is the ratio of inertial forces to viscous forces within a fluid which is subjected to relative internal movement due to different fluid velocities. A region where these forces change behavior is known as a boundary layer, such as the bounding surface in the interior of a pipe.A similar effect is created by the introduction of a stream of high-velocity fluid ... Life Science Tennessee and Baker Donelson Release Entrepreneurship Report (December 5, 2014) Baker Donelson Announces 2014 Diversity Scholarship Program Recipients (December 2, 2014 ... Chris Sloan Addresses Crowdfunding for Renewable Energy Projects in Platts Energy Economist (October 4, 2012) Download Free PDF Download PDF Download Free PDF View PDF. By Authority Of Legally Binding Document Document Name: CFR Section(s) by saurabh surya. View PDF. Tank Inspection, Repair, Alteration, and Reconstruction Done Right. by antonio valentin diaz. View PDF. A Quick Guide to API 653 Certified Storage Tank Inspector Syllabus. Aug 11, 2015 - PDF Pack Download PDF Package. Clinician's Thesaurus, 7th Edition: The Guide to Conducting Interviews and Writing Psychological Reports (The Clinician's Toolbox. by Ioa Al. Date added: 08/11/15. Psychology • Clinical Psychology • Social Psychology. Download Free PDF. Download PDF Package PDF Pack. Download. Jul 11, 2021 · The Fraternitas Saturni: History, Doctrine, and Rituals of the Magical Order of the Brotherhood of Saturn EPUB PDF Download Read Stephen E. Dionysians and the Bacchic Cults were also likely Saturnian due to the mystical unknown initiatory rites that seems to emulate the rings of Saturn motion around a central point - (same as ... Password requirements: 6 to 30 characters long; ASCII characters only (characters found on a standard US keyboard); must contain at least 4 different symbols;

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