



DAMINI GUPTA <daminikiku@gmail.com>

Fwd: grand viva questions

6 messages

anubhav singh <anubhavsingh1987@gmail.com>
To: damini awaaz <daminikiku@gmail.com>

Tue, Apr 5, 2011 at 3:46 AM

Anubhav Pratap Singh
anubhavsingh1987@gmail.com , anubhav.singh@estumart.com
Indian Institute of Technology,
Kharagpur
ph. no - +91-9732855911

----- Forwarded message -----

From: **anubhav singh** <anubhavsingh1987@gmail.com>
Date: Mon, Apr 4, 2011 at 2:03 AM
Subject: Fwd: grand viva questions
To: abhijeetsureka dfm <abhijeetsureka@gmail.com>

Anubhav Pratap Singh
anubhavsingh1987@gmail.com , anubhav.singh@estumart.com
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Kharagpur
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From: **Nilesh Gupta** <nileshkgupta@gmail.com>
Date: Thu, Apr 1, 2010 at 1:10 PM
Subject: Re: grand viva questions
To: chem-06-rox@googlegroups.com

ddkar:

peclet number/stanton number
significance of grashoff no.
function of tie rods
difference between formula of hydraulic radius for pressure and heat tr in case of an annulus
write down siedler tate and ditius boelter eqn
forces acting on rotameter bob

if bob is inverted will the rotameter work, if not why

sde:

condition for natural convection

if dia of pipe is 25mm what is order of magnitude of momentum boundary layer for laminar flow

if velocity is increased what is effect on bdry layer thickness

eulers eqn

stokes eqn

what is irrotational flow - physically, not formula

what is eqb governed separation process and what is rate governed spn process

give examples of both

sudarshan neogi:

what is heat transfer coeff, its unit

critical thickness

advantage of packed column vs plate colmn

types of packing

if tower is quite tall how would to place random packing inside it

what are hdpe and pet

condensation polymerization

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From: **Prer@k G@rg** <prerak.garg@gmail.com>
Date: Thu, Apr 1, 2010 at 12:22 PM
Subject: Re: grand viva questions
To: chem-06-rox@googlegroups.com

@ Anna : lol

Gargi Das:

1. azeotropic mix., derive that $dp/dx=0$ at azeotropic composition
2. why we use co current and counter current flow.....gave some funda abt LMTD, but everything was wrong.
3. fugacity, its use, significance.
4. Fp factor, LMTD correction factor.
5. Compressibility factor

Few more questions, which I don't remember, since I didn't even understood them. Out of the above questions I could answer only azeotropic mix, compressibility factor and fugacity.

Saikat:

Same questions as posted by cobra and gaurav:

He told me that I was disappointing and during my viva he was talking to gargi in Bengali that I don't know anything :P

On Thu, Apr 1, 2010 at 12:09 PM, Vamshi krishna <rajvamkrish@gmail.com> wrote:

> Gargi Das:

> q.1 Have u heard of Hagen-Poiseuille equation?

> I said no..so she asked me to derive it!!

> q.2. Have u heard of Fp factor?

> I said no..so she asked me what is LMTD correction factor and y it is used.

> q.3. Have u heard of different types of pumps?

> One thing I had heard of...so I answered yes. Then she asked NPSH and

> characteristic curve of centrifugal pump.
> q.4 Have u heard of rotameter?
> I said yes..so she asked me the principle and also that if we take rotameter
> to the moon, will the reading increase or decrease.
> General reaxn of Gargi das to every answer: IS IT?? R U SURE?
> TIP: Be sure for every answer!!!
> Saikat:
> Saikat had a common question bank. He asked questions 6 to 9 posted by
> Kobra. Also,
> Heat, momentum and mass transfer analogy equations- he wanted all of them!!!
> And for respite bcoz I hadn't answered even a single question till now, an
> easy question on Fourier's law which is not worth mentioning!!!
> General Reaxn of Saikat for every answer: U DONT KNOW ANYTHING!! U JUST COME
> HERE WITHOUT STUDYING ANYTHING!!
> TIP: No need...no tip can save u
> So, prepare well or prepare not, ur fate will decide wats gonna happen to
> u...ALL THE BEST!!
> P.S- Before my GV itself, I got a minus 10 warning from Saikat for going to
> the toilet, leaving the CAPE lab without his permission. So, in case of a
> similar situation,
> please do ask with ur right hand raised and palm facing the ground, "MAY I
> GO TO THE TOILET, SIR?"!!
>
>
> --
> G.RAJA VAMSHI KRISHNA,
> Final Year Undergraduate Student,
> Department of Chemical Engineering,
> IIT KHARAGPUR-721302,INDIA
> Phn no: +91-9932584353
> rajvamkrish@gmail.com
>
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[googlegroups.com](http://groups.google.com/group/chem-06-rox?hl=en-GB).
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From: **Vamshi krishna** <rajvamkrish@gmail.com>
Date: Thu, Apr 1, 2010 at 12:09 PM

Subject: Re: grand viva questions
To: chem-06-rox@googlegroups.com

[Quoted text hidden]

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From: **Ravi Kapoor** <ravi1650@gmail.com>
Date: Wed, Mar 31, 2010 at 7:33 PM
Subject: Re: grand viva questions
To: chem-06-rox@googlegroups.com

1. how to calculate hydraulic radius
2. Grashoff number
3. Difference between packed bed and plate tower... the type of packings and internals
4. value of venturimeter constant.. compare the value with that of orifice meter constant
5. basic definition of viscosity and how will you explain this definition to a class 6 student ... then units of viscosity
6. regarding pumps..characterstic curves....
7. navier stoke's equation...
8. Sde part
Homogeneous equations and Non-homogeneous equations
Linear equations and non-linear equations
why do we use laplace tranform in solving ODEs
can we use laplace transform for PDEs

On Wed, Mar 31, 2010 at 7:23 PM, ARUSH DHAWAN <a.r.u.s.h.10jun@gmail.com>

wrote:

2 hi ques yaad hain

Tell Dittus Boltter Equation and Sier Tate equation (i hope spellings thk hain)??

hint was also given " u must have studied these equations in heat transfer"

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Ravi Kapoor

Final Year Undergraduate Student,

Department of Chemical Engineering,
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(00919734425778)

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From: **gaurav anurag** <spiderman.gaurav@gmail.com>

Date: Wed, Mar 31, 2010 at 8:50 PM

Subject: Re: grand viva questions

To: chem-06-rox@googlegroups.com

1. about forces acting on the float of rotameters
2. assumptions of mccabe thiele model
3. dittus boeler and ponting correction(sorry for the wrong spellings)... hint- u must have studied it..
4. navier stokes eqn and its simplification for potential and viscous flow..
5. pid controller transfer fn and its tuning to on off controller and proportional controller.
6. learn all the dimensionless numbers carefully(diff betn biot and nusselt and blah blah)
7. mass and heat balance in pfr..

Panel- Prof Gargi Das and Prof Saikat...

[Quoted text hidden]