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 precipitation \u0026  
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Precipitation and Rain  
Gauges | Engineering  
Hydrology Engineering  
Hydrology Lecture  
Notes 1. Lifting and  
Cooling - Lifting of air  
mass to higher  
altitudes causes  
cooling of air. 2.  
Condensation -  
conversion of water  
vapor into liquid  
droplets. 3. Droplet  
Formation - Growth of  
droplets is required if  
the liquid water  
present in a cloud is to  
reach ground against  
the lifting mechanism  
of air. Engineering  
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ways: Hydrology is  
used to find out  
maximum probable

flood at proposed sites  
e.g., Dams. The  
variation of water  
production from  
catchments can be  
calculated and  
described by  
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Packet 3 Prof. Charles  
Harvey Page 6 of 9 x. q  
x = The magnitudes of  
K in K<sub>xx</sub> K<sub>xy</sub> K<sub>xz</sub> K<sub>yx</sub>  
K<sub>yy</sub> K<sub>yz</sub> K<sub>zx</sub> K<sub>zy</sub> K<sub>zz</sub>  
K<sub>xx</sub> K<sub>yy</sub> K<sub>zz</sub> the  
principal directions  
conductivities. If the  
coordinate axes are  
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 Correct assessment of flows for hydropower, irrigation, drainage and water

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components are  
treated with simple  
calculation methods to  
quantify water  
balances and mass  
transport. Water is a  
chemical union  
between hydrogen and

oxygen.

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