

EXAPORATIVE COOLING - FRU APORIATION LS FROM A SURFACE + BOILING IS WITHIN THE ENTIRE VOLUME SKIEAT -> BODY COOLING HTSELF VIA. HEAT TRANSFER THROUGH H20 -> INTO WATER VAPOR IN AIR A - IF HIGH HUMADITY BODY CAN'T PO THIS WELL BELAUSE AIN MORE SATURATED A DAIR MOVEMENT OVER SURFACE DELPS WITH CODLING -> TALL WINDOWS + CEININGS IN HUMIP CLIMATES BAND USE CEILING FANK - SOUTH PACIFI -> SOUTH-EASTU

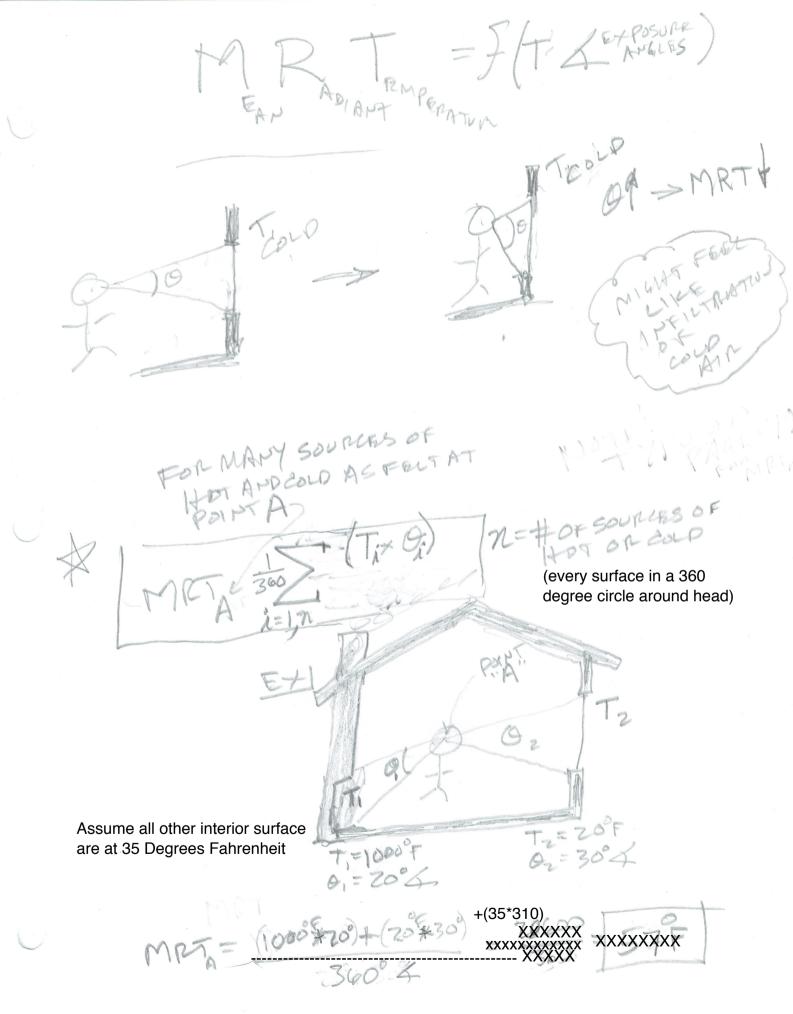
* CONVECTION GAS OR LIQUID: TEMPA -> DEPSITY - LESS DENSEGAS ON LIQUID PISES = = = = = (GRAVITE) + CONVECTION CURRENTS CREATE -> CAN MAKE USE OF FOR ENGRAY GENERATION DINOCEANS to - STRATIFICATION OF AIR WITCH HOT AIR RISES A -> MAY WANT THES IN HOF CHIMMES WITS LET RID OF TAN ZEILINGS HEAT A - MAYNON WANT THIS IM BOLDG ELIMATRS -> LOW CEILINGS TO KEEP HEAST NEAR 40 PEOPLE A-DUSE INFILTERTION BARRIORS (WALLS , AND "WEATHER STRIPPING "AROUND DOORS + WINDOWS TO PREVENT UNDESIMBL HEAT LOSS OF GAIN



SHEAT IS A FORM OF FLECTROMAGNETIC PADIATION WHEN Heat in CONDUCTION is via elastic collisions between molecules Heat in CONVECTION is via motion by the flow of the medium X RAYS ULTRAT VISABLE INFRARED MONOWAUL PARIS 1=5(temp) VIBGYORE OPERADO 1-> 24 > TRAVELS LIKE A WAVE > J NATERALITS WITH MATTER LIKE A PARTICLE (12, PHOTON) M. PADIATION - DWITH EFFECTIVE MABS -TYPEGBE INTERACTIONS PRAPSMITTANCE DJUST PASSES THROUGH A EXIWINDOWGLASS HEART SLAK * CONVERTERINTO SENSIBLE HEAT -> THERMALMASS FLOOR in surl REFLECTATE A EX REFLECTIVE PATHTS A EX REFLECTIVE COAMPGS ON EMITTANCE A EXITHERMAL MASS FLOOR AT NIGHT

GREENE HOUSE EFFECT A EX GLASS TRANSMITS SUNLIGHT BUT REFLECTS MAEATL (SHORT) mmultin 11 FENISTRATION · DESIGNOFOPENINGS 18 BUILDINGS MURDUS FLOGENSPS-THE HEALTHANSW BTNDOW EX EARTH ATMOSHPHERE Manny Mark 1. APA EAR GREED HOUSE GASES CHANGE "GLOBAL WARMING DICEMENTS DOCEANS RUSE -> ELOSTSTEMSUPBARAM JT Wunderlich PhD

EQUILIBRIUM TEMPERATURE = F(ABSORBTANE, EMITTANCE) EX FOUR BLOCKS OF SAME MATERIAL EACH COATED DIFFERENTLY PER PING BLACKPMAT HROME WHATEPAINES ABSOR BTANCE L EN ITTAKE H VERM HOT HOT FRONKIB COOL WARM Goop FOR SOWAR downerows A MUCH LOOD For The ion 6000 Jos CLIMANE EUIZONAS



= 87 Degrees Fahrenheit

NOTE: SOME LIT'S SERTIAN DISLUSTING EXPANDI + MONRO INTO LATER, MORE-ADVANCED LECTURES: MAL 3,14 "HEAT SINKS" ROMAN ARENTRECTURE HEAT PUMPS & CHIS REPRESENTS COULDE (XXXXXXXX) 3.15 "HEAT CAPACITY PCHT Solar "PASSIVE XXXXXXX (XXXXXXXXX) 3.16 "THERMAL RESISTANCE" (R-VANES, EXE) A CHIS THEMATLE PH 3.17, 13.18, 3.19 (SEE XXXXXXXX) PCIS

ENERCHY CONVERSION Qt 3.20 ELECTHONN VERY REFELCIENT HAZAMOOUS !! BUT RETTURT VERT WASTEFUL EDSS12 First "OMGINAL ENERLY LOST: or D HBAT LOSS & STRAM LOSS TELECTRO MEMAATICAT 1055 (TURBINES) * TRANSMITION LINRS ->"I BAUMMAND R LOSSES" ~ LOYSTANT DURA RESISTATIONSMITTES Corport 1055 THIS IS WHY A IT'S BRATER TO TRAVSMIT HIGH VOLTAGES ALSO-SIPUR TAG BUT to MULLA LESSON DEGREE, IN HOME HEATING - P Fer 220V FLEC. GASE & UNIO RADZZOV WAJER Hertows -> MUCH OF THE WORLD USES AZZOV INSTEAD OF-110N (USED IPU.S.) -> BUT DANGEROUS 1 Shk D. H. I. PLOTORES 12 PADOVAT

"COMBINGO HEAT + POWTER 3.21 COGENERATIO OUR FRIENDS AT PHOEHIX CONTROL USA DOING THIS, ELERATURIT FOSSIL FUEL Now - DASLITTE AS

\$5% FLFF

- MINIMAL I RLOSSRS

- USE REGULTING HEAT

FROM CONVERSION FOR

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BRATEN IF ZOU

REATE YOUR OW

ELRZIK

HOT-WATER

SPACE - HENATING

To understand hydrogen fuel cells, first research how batteries work. Then research how hydrogen fuel cells use oxygen and hydrogen to create electricity and yield water as a byproduct. Make sure you understand the dangers of hydrogen storage and transportation. And remember that a battery does not need a fuel source; some batteries can be recharged by providing electricity to them; however a hydrogen fuel cell NEEDS a source of hydrogen

TPICANNY FLIEL CEUS USING HY DROGEN DELEON AS LITTLE AS TOTO B MERCH LOSS MUCH PRESEARCH OPGOING IN TARON

HEXTERROJUR

METHAPE,

BUT, USING THE SUN INSTRAD

FRUMINATIES MUCH OF THE PROBLEMS

W/USING ROSSIL FURIS (POLLUTION)

POLITICS, LIMITED SUPPLY, FITZ)

https://www.youtube.com/watch?v=8iT9B7aJNKc https://www.youtube.com/watch?v=iJgMuDzkdkI

SATUNA

JT Wunderlich PhD

1 PI Com OIL AND

3.23 EMBORED ENERGY

US.

ALSO, CONSIDER MIC EVERIGY USED to CREATERIAL MATERIALS

-> An VENTRUAN

TYDUST

TRAVSPORT

NOTE: LEED CREATS ALARAS ROTE: LEED CREATS ALARAS ROTE: LEED CREATS ALARAS MATRICASS