Last trei Introduced overted colon. Heres Cohom. pretting A: (Sm/k) - 6 Pryc extra strate: quentation various definitions pishforeds chern classes to proj. Menghisms c.(L) (A, w) "ovenhalty" co e grentation in A Recall last fore gren (Aw), gives an identification 3 - 0,10(-1) at A(P=) = kTSI gren another overteton, wi, then gres was to wing A(IPM) was Acottles an 139 -AGT) It ] = a(t) sur all sattate. 9,6ALPtr

alt)/+ -a+at Pot 1: calculus - l' convision lectre ( (4)n) Sippox +(t) + A(pt) Ita (A,w) arented col. thy Prop. + rete = A(pt) &t) ] a unique assignment thy whides Ex mor (E) & A(X) s.t. 1) 1(1) = 1 (00(1)) 2) som fix-y ten fr(r(E)) ~( fx E)

3) r(E)=r(E)r(E2) where 0-1 E, -> E -> E2->0 1.85.

if rithe Alpt) It De then

(E) -1 (E) = 1 in ALX)

C+=1+c,++c2 +2+ --

One useful agentus pushband fr cloud inhabys. "Gysin mags" Y ci X rlt) w  $i_{\star}^{\omega,r} = i_{\star}^{\omega} \cdot r(N) : A(Y) \longrightarrow A(X)$ N=Nxy (ingre (t)=1+ Hot)
this gres good system of gy sm map. In more generally : if f: y -> X is a payington an act motble, then f \* : A(4) - A(x) a retta) f((a. retty)) gres a new arentation. Morem: if wis gry other overtedor, Hen 3 r(t) st.  $f_{\omega,r}^{\omega,r} = \int_{t}^{\omega}$ 

Fralstep: how to get 1? guen a marphism of prefleres  $\varphi:A \longrightarrow B$ where A, B are overted. then let  $r(g_B) = g_B/\phi(g_A) \in B(P_B)$ BLOTH  $g_B$ fd (58) tdq(E) via r constrator alog and in the cone toly is involle.  $td_{\varphi}(T_{x})' \cdot f_{+}^{\beta}(\varphi(a) \cdot td_{\varphi}(T_{y})) = \varphi(f_{x}^{\lambda}(a))$ or in standa fra for (gla). tdg(Ty)) = p(to(a)) . tdg(Tx) A(Y) Colling B(Y)

A(X)

Next stiff.

A but I classical & theory Ko, Ki, Kz

High Kthey (tollary Caviller's a contectu)
roughly follow Somivers!
Alg. Kthy book.

[ Fibratins, homotopy times, les in hom gys.]

[Spectral opences avisy from eracl corples]

Classical K fly

K. = continued from Gran a solve X

K'X = free (iso lac. free ships)

ses rel.

(E)=(E)+(E) (F)=(E)+(E))+(E)

A CSA/k & A = Idm. A

if dy A is squarelee => SKILK) = O

if dy A is not squared by fdrision

Consi(Sustin) if A is not squared by fdrision

then 7 h/k sit. About has SKILAGEL) FO

proved if dy A = 4

agen in send P