

Roberty: The control of the control of the following for the control of the cont
(Un, h) s.t. YO Y-: hu (For Mo) = \$ or (phxp
(F, >) nh x(*)
Ex: Flor lines of a non-vounding Vector titeld are n-trensum foliating
$M=T^2$ If slope $\in (\Omega -)$ leave are compate $(H \in Slope \in IN(\Omega -) \cup II \cap III \cap IIII$
If h=n-n -) 5 = U TeF(P) D a hyperprine fould
If h= n-1 =) 5 = U TpF(P) is a hyperplane forld "every foliation of com 1 whices a hyperplane fold"
Withen does a hyperplane come hom a foliable ?"
Teom 2 [Framius]
Ker (a) = 3 (T) 12 manced by a forestime (=) a A d a
digression: 41: to 1- Form IN Con
$\gamma \in (\gamma)^{3}$
Let $x_1,, t_n$ be coordinates on \bigcap
$\Rightarrow \alpha_i = \sum_{i=1}^{n} C(A) x_i$ $\Rightarrow \alpha_i = \sum_{i=1}^{n} C(A) x_i$
heron B: (To M) x x (Tym) In nutliner, alternating
A-product:
1 - trongs. Q = E C; d x;
$B = \{ B_j \} dx_j,$ $A \cap B = det.$ The secondary $A \cap A $
Diller trai
(h- Form) (h+n) - Forms
$ \underbrace{\begin{cases} c_i(\rho) d \times_i & \longrightarrow & d \alpha \\ \underbrace{\partial c_i} d \times_j \wedge d \times_i \end{cases}} $
$-\frac{1}{2}\sum_{i}\sum_{j}\sum_{j}\sum_{i}\sum_{j}\sum_{j}\sum_{i}\sum_{j}\sum_{j}\sum_{i}\sum_{j}\sum_{j}\sum_{i}\sum_{j}\sum_{j}\sum_{j}\sum_{j}\sum_{j}\sum_{j}\sum_{j}\sum_{j$

 $\frac{\text{tex}:}{\text{d} x} = \ln^2(y_{y_1 z_1}) \propto dx$ =) \alpha / da con from a foliable $(2) \quad \alpha = \times d_{7} + d_{2}$ $d\alpha = d(xdy + dz) = d(xdy) + d(dz) = \frac{\partial^{*}}{\partial x}dx dy + \frac{\partial^{*}}{\partial y}dydy$ ornda= (xdy Ldz)n (lxndy)= xdyn(dxndy) + dzndxndy an (da) - andan. ndo * of D carled contact form If the reels vector fireld R_{α} of α is demy $\begin{cases} \lambda_{\alpha}(\Lambda_{\alpha}, 1) \equiv 0 \\ \alpha(\Lambda_{\alpha}) \equiv 1 \end{cases}$ nerwh: 91 (da)" w = vol fun >) (o new Nor * $\frac{1}{3}$ = her (α) - her (α) - α = $f\alpha$ for f: -> In {o} $\Rightarrow \alpha \wedge (d\alpha)^n = (+\alpha) \wedge (d(+\alpha))^n =$ fan (far + dfna)" $= \int_{0}^{n+2} \sqrt{(Ja)^n}$ Rais well-defined;

or N (day) fo =) (day) fo =) day his rank zn

zndamon =) rev (day) is n-dn

zm/le & or fo on ker(day)

Worston (on : (closed =) It control for a an or la a perote orst 10 (+1, 41, 1-1/2, 17m, Z) Ex (1) (ononler Standard contact Structure Sst = Ker (Ost) $\alpha_{st} = \left(\begin{array}{c} 2 \\ 5 \end{array} \times \lambda_{\gamma_i} \right) + \lambda_{z}$ = ({ x,dy, +dz) / (d({ x, 1, + 1, 2))" = ({ x, 1, + 1, 2 }) / ({ d x, 1, dy,)" and a (dast)" = ({ x dy; + dz) 1 [dxindy: n dx6 ndy; \(\lambda dxindy: \) \(\lambda dxindy: \) = dz / n (d x, ndyn / duz/ drin... n / h, n / n) - n | d x, ndyn / duz/ drin... n / h, n / n / z & f 0 Compre Rost = $(\{A, J, +B, \partial_{7}\}) + C \partial_{7}$ $d_{est}\left(\bigcap_{st} st, e \right) = \left(A_{i} d_{7i} - B_{i} d_{5i} = 0 \right)$ $A_{t} = (n_{st}) = c + c_{sin} = 1$ One solution: $N_{orst} = \partial_{\frac{1}{2}}$ (2) $S_{yy} = her \left(\frac{S}{2} \left(x_i d_{yi} - y_i d_{xi} \right) + d_{\frac{1}{2}} \right)$ Horsework: This is a constact smuchne · Ra = 72. · for n=1: toan this · read milher: Topology for a alternal very int Jelby Lee