26, April 22,2024. tro. to Comp U.S. assume perfect gas) ee fine of U, the cons. variables (d=3)bisatic ener Enler Jerry $S_3 = 0$ body force vector (e.g. g., grandy) way to express this:

Fi (() = \ 0 \ heat fem (134.) qi=- x Oii absolut where (Fourier eaw) constit =q. Tij = wiscoulle 3x3 itus tenin $T_{i} = \begin{cases} T_{i} \\ T_{i} \end{cases} = \begin{cases} T_{i} \\ T_{i} \end{cases}$ $T_{i} = \begin{cases} T_{i} \\ T_{i} \end{cases}$ Kronecker & = identity > Tij = 1 Exx Sij + 2 m Eij const. og. Eig (u) = 1 (ui, + ui, i) (symm) define all quantitue in terms of U.

up. heat at const was.

(assumed const.)

Perfect

Perfect

Perfect

Ap. heat at cont pure. entropy. prod. second low of Ilemo, ceausine - the Duhem ineq. (92),+ + (gui?), + (qui), i - gr > 0. thermo entropy physical "

in general 2 = 2 (w, 2) got spec, wol. $\Theta_{N} = \hat{\imath}_{,\eta}$ P = - 2, w $dz = \frac{\partial \hat{i}}{\partial v} dv + \frac{\partial \hat{i}}{\partial \eta} d\eta$ (Gibbs relation - Padg = P dg + 0 d7 $d(C_{0}\theta) = (8-1)\theta^{2} \frac{d\theta}{d\theta} + \theta d^{2}$ $C_{0}\frac{d\theta}{d\theta} = C_{0}(8-1)\theta \frac{d\theta}{d\theta} + \frac{6d^{2}}{6d^{2}}$ dr dn = (de - (8-1) de) define mon - dim entropy s= n s = en 0 - (8-1) en g + const. = In 0 - eng (8-1) + cont en (90) + const.

$$P = (x-1)gc_0\theta$$

$$= (x-1)c_0$$

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$$= (x-1)c_0$$

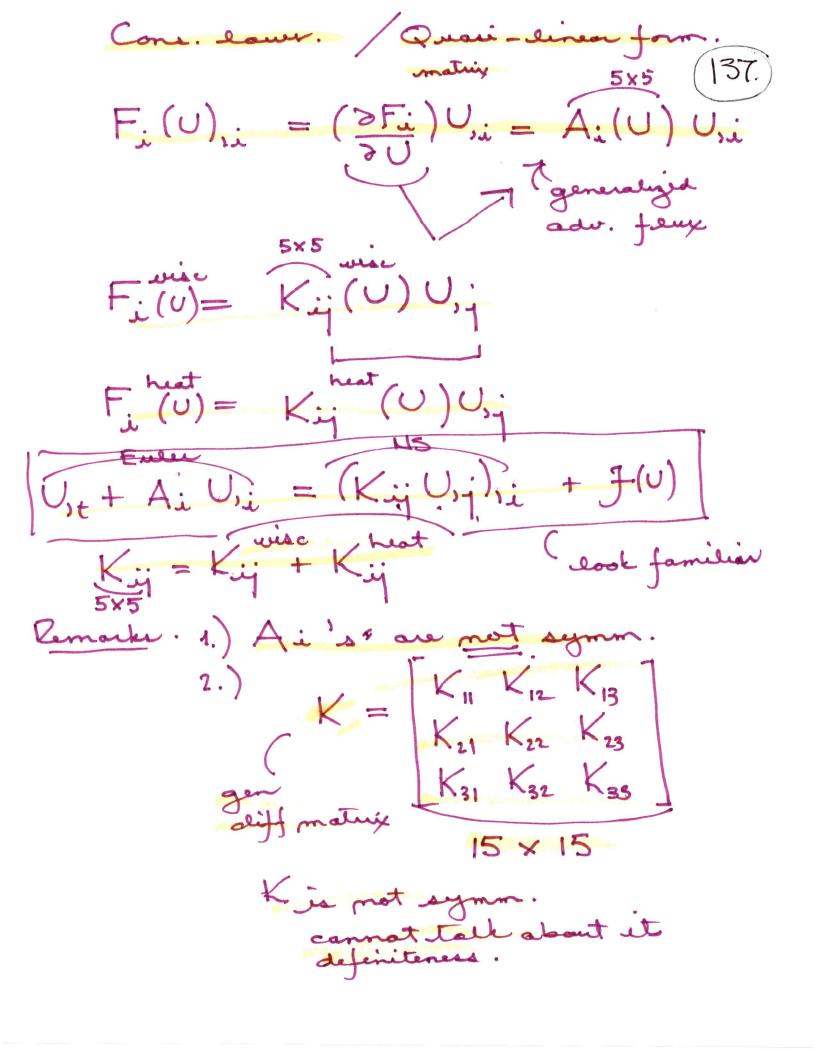
$$= (x-1)c_0$$

constants

Hy let conet =

No = en (Po (30) = en 1 = 0.

ref. volue 30.



connect w. entropy [38.]

and symm. hyp. systems.

(Friedrich's

-> where we want to go:

symm ado-diff systems.