

Inhinitesimal setting:
G
dle = rightly moting w/1 El rous
9 0
1 · · · · · · · n
row ij: \vec{o} $x_i - x_j$ $x_j - x_i$ \vec{o}
dn cols
· stress := dep. on nows
·instricted motion := eff of kennel
· n'où dido mandra d. C. : s'india if
· rigidity matheid: G is indep if dy, has lin. ind. rows.
ay rus wn. (na. 1803.
White-Whitely: Describe p st. (all) p drops rank. (G gen. min. rigid) · as C (ox) = o · getmethy of p can be described using symbolic geom. conditions (sometimes)
done mul (G an min noid)
$0 \cdot 10 \cdot $
· selected in the control
· OLOTTICANO PAR () CONT LOU SCULDED
using sympholic geom. condutions
(ametime)
$E_X: n=5, d=2$
/3 \ /4
$C_{c}(x) = [123][184][245]^{2}$ $[123] = [11][11][245]^{2}$
$\frac{1}{2} \left(\frac{1}{2} \right) \left(1$
[123]=),,,,,

[183] = 0 => x_1, x_2, x_3 are ordin.

rows 18, 13, 23 are dep. [245] = 0 => 20, 24, 26 are odin.

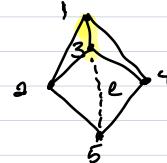
dep.... supported on all of G. note: Information about edges obscured. a: What if we work with (1,)? $V_{x,1} = V_{x,1} = V_{x$ Van: $V(\mathbb{C}^{dn}) = Cayley - Menger$ Id,n = all polys van. on Vd,n = algebraic relns on Lij

We can recover the rigidity motivated from Id_{n} i G = (V, E) IVI = N

note: If $P = \langle f \rangle$, then I is a fector of the discriminat of V_G .

Q: If G is min. rigid, for which (1:) can motions occur?

Ex:



n=5, d=2

Js there a motion for which e = 25 changes length?

G'= Gte is a circuit

for circuit poly.

f (e) = f e + ··· + f, e + f

If (1,) allows a motion changing the length of e, then (1;) $\in V(f_0, -1, f_0)$.

\(\forall --, f_b \) has le associ primes.

100: < l13, l14-134, lp-13>

