Pinite State
Machins

<u>Ch</u> 6

Finite State Machine

inputs / coursed / outputs

Specification

Ly Ustates: Sisin, Su

In inputs; Tisin, In

In outputs; Oising on

Ly Transition rales

Ly S'(s, Z) for each

state s and input T

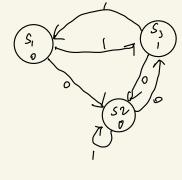
State s and input T

Ly out(S) in out(S,T)

for each (S) on (S,T)

Valid State Diagrams

MJORE Navire
Golffers on States



Ly orthers on transitions

- Arcs leving a state must be:

La nuturally expressive

Ly colourting expressive

Equiralece 4 FSMs an equiment iff every input sen yields idetical output segs Ly we want the singlest Equivalent FSA Ochling with Mcfa Stability; DOLSY increases Reliasility te expre egisters between asyac input and 1-900

increase elasility