FORMIC DEFILITION OF -

FWITE AUTOMAD

S- tuple (Q, E, E, posF)

Q -> FINITE SET of STATES

€ > fillte ser > Aiphalet

S: QXE>Q > Transition Function

go EQ START STAKE

FSQ THE SET OF ACCEPT STATES

FIGURE 1, 6



 $Q = \{q_1, q_2, q_3\}$ $S = \{0, 1\}$

LET $M = (Q, E, E, q_{\alpha}, F)$

LE+ W=W,WZ...Wh IS a STRING WE E

MACCEPTS W IF TO SEQUENCE OF STATES VONDINIONS;

1). vo = go

2) 8 (Vi, Witi) = Viti, for i = 0, ..., n-1

3) vn E F

M ACCEPTS language A 15 A= EW | M ACCEPTS W}

À LANGUAGE IS à <u>vogulze</u> language 15 some FINITE AUTOMATA RECOUNTRES 17 RELUCAR OPERA-HOUS

1). UNION: AUB = {x | x ∈ A OR x ∈ B}

2) CONCATONATION: A.O.B. = {XY | X EA AND Y EB}

3) STAR: A = {x, x, x, x, t, } +>0 AND TACK X; EX}

NON-DETERMINISM

DFA - ONE OR FERO transitions from any store - ACL Transition are from the ziphabet

NFA- NON-DETERMINISTEC FA

- O OR MORE EXIT From a STATE ON Z SYM.
-ALL TVASHIONS AND from enter the alphabet
OR The symbol E

An Fine

Tree of Possibilities

In gn+1