Theory of Automata. Pecture 1: less pratical & -> Self acting.
More Mathematical - theoretical bypeds of cs. Book; " lutro duction to Computer theory". 1991. Davil I Cotten. - Compiler Construction.
- Parsing
- Formal Verification.
P efining Computer languages. Applications! → forma):- C++, C, Java. --Rules → language.

-- Informa):- Human
first language → Rules. Language Elements:
A finite non empty Set of Symbols (letters).

Called alphabets.

Egi- \(\geq 2\) \(\frac{1}{213} \). Language Basic Alphabets: Z = {0,1}. | Bruary. Ezgabic ... 2). Strings: - A Combination of alphabets. Example Zz foilf. 0,1,00,01,10,21---Z=faibj. a.b. aa.bb.ab.ba, ---Null String :- A String with no Symbol. "1" "1" WORDS: - Words are string - that belongs to a language. Ex: Zzfal a, aa, aaa,
ab

X. String but not a word in E.

Rus for alphabetsi

1- 7 (1) 2- Should be firste. 8- Should not be ambigrous.

Eri- Z= {A, Aa, bab, d}.

Aabab A. -> is it a word?

(Aa), (bab) (A) -> K.

(A), (abab) (A) ->.

- A Symbol should not start with a lefter already being used by some other lefter.

Brampli = E, = f A, aA, bab, df. ~

Zzz S A, ka, bab, df X.

Z, 2 f a, ab, ach K.

Zzzfa, ba, caf.

dougth of String: Number of letters or Symbole iv a String. Ξ_2 facts.

Sz a9a6b.

Bramplet Zzf A, ah, bab, df.

Sz AaA bab Ad.

¥ 8 Padoring: 15125.

Longth of a String Over a alphabetr. Formula: Nomber of Strings of long Th'm" defined over applicates in is [nm].