

UNIT 14 *Morse Code*

Overhead Slides

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- 14.1 Transmission Times
 - 14.2 Possible Codes
 - 14.3 Codes in Order of Transmission Time
 - 14.4 Morse Code
-

OS 14.1

Transmission Times

<i>Character</i>	<i>Time</i>
Dot	1 unit of time
Dash	3 units of time
Letter pause	3 " "
Word pause	7 " "

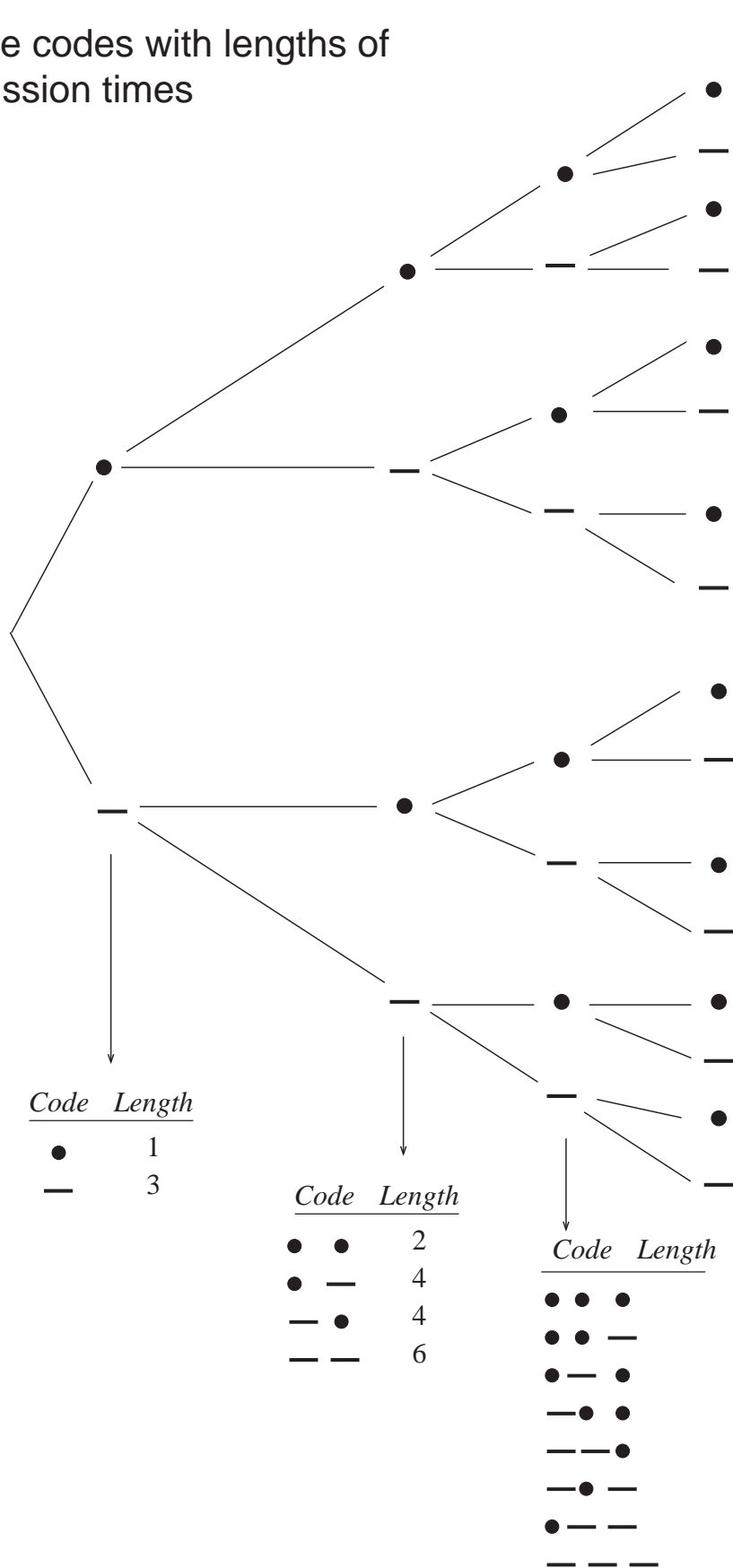
Example

$$\begin{array}{l}
 \text{SOS} \Rightarrow \begin{array}{c} \bullet \quad \bullet \quad \bullet \\ \underbrace{\hspace{1.5cm}} \\ \square \end{array} + \begin{array}{c} \downarrow \\ \square \end{array} + \begin{array}{c} \text{---} \text{---} \text{---} \\ \underbrace{\hspace{1.5cm}} \\ \square \end{array} + \begin{array}{c} \downarrow \\ \square \end{array} + \begin{array}{c} \bullet \quad \bullet \quad \bullet \\ \underbrace{\hspace{1.5cm}} \\ \square \end{array} \\
 \\
 = \square \text{ units of time}
 \end{array}$$

OS 14.2

Possible Codes

Possible codes with lengths of transmission times



Code Length

OS 14.3

Codes in Order of Transmission Time

<i>Code</i>	<i>Length of Transmission Time</i>
●	1
● ●	2
—	3
● —	4

OS 14.4

Morse Code

A	● —	N	— ●
B	— ● ● ●	O	— — —
C	— ● — ●	P	● — — ●
D	— ● ●	Q	— — ● —
E	●	R	● — ●
F	● ● — ●	S	● ● ●
G	— — ●	T	—
H	● ● ● ●	U	● ● —
I	● ●	V	● ● ● —
J	● — — —	W	● — —
K	— ● —	X	— ● ● —
L	● — ● ●	Y	— ● — —
M	— —	Z	— — ● ●