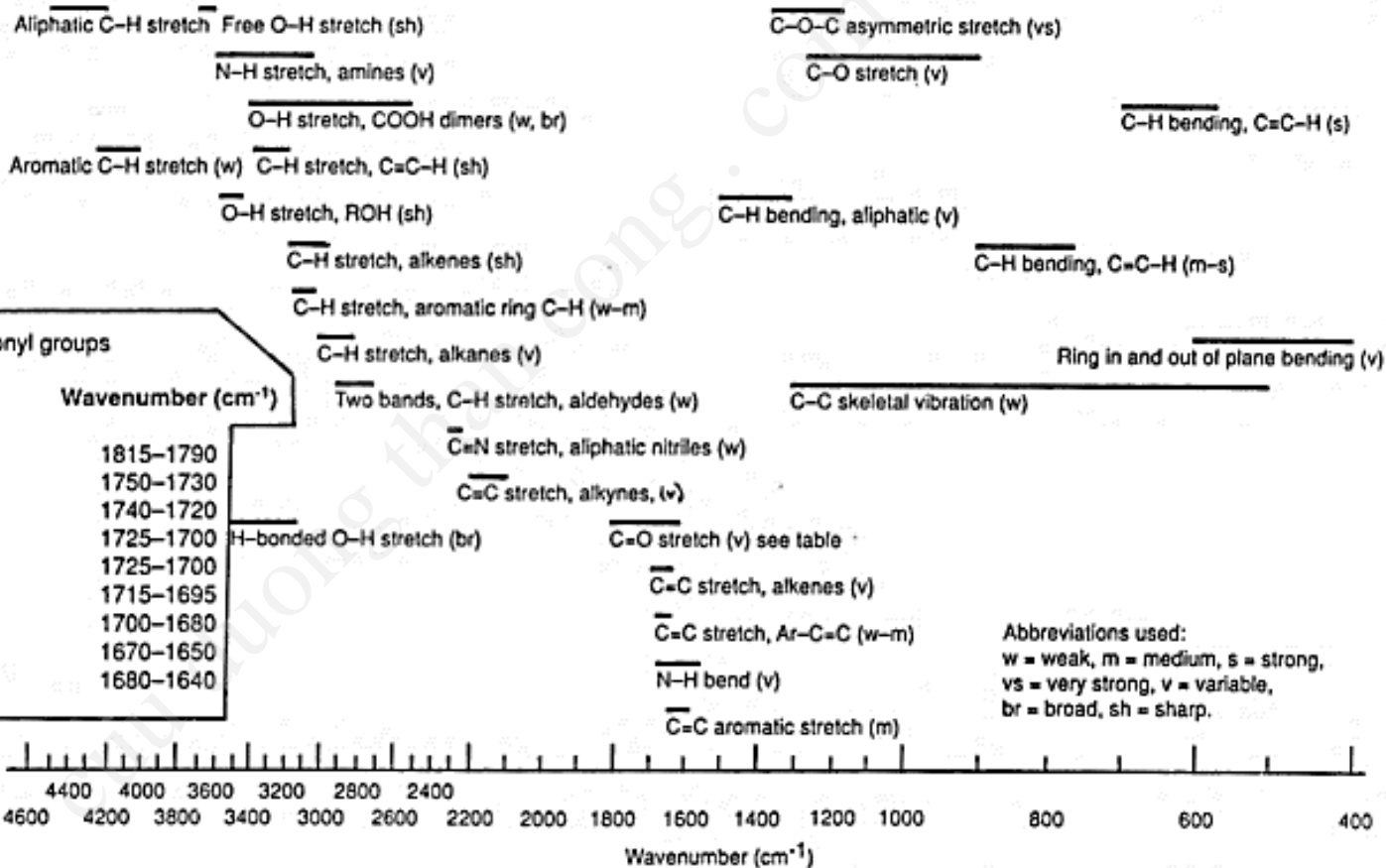
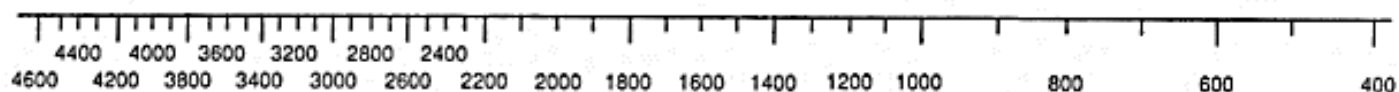


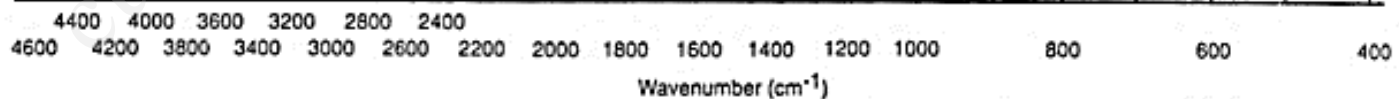
Correlation table for infrared spectroscopy

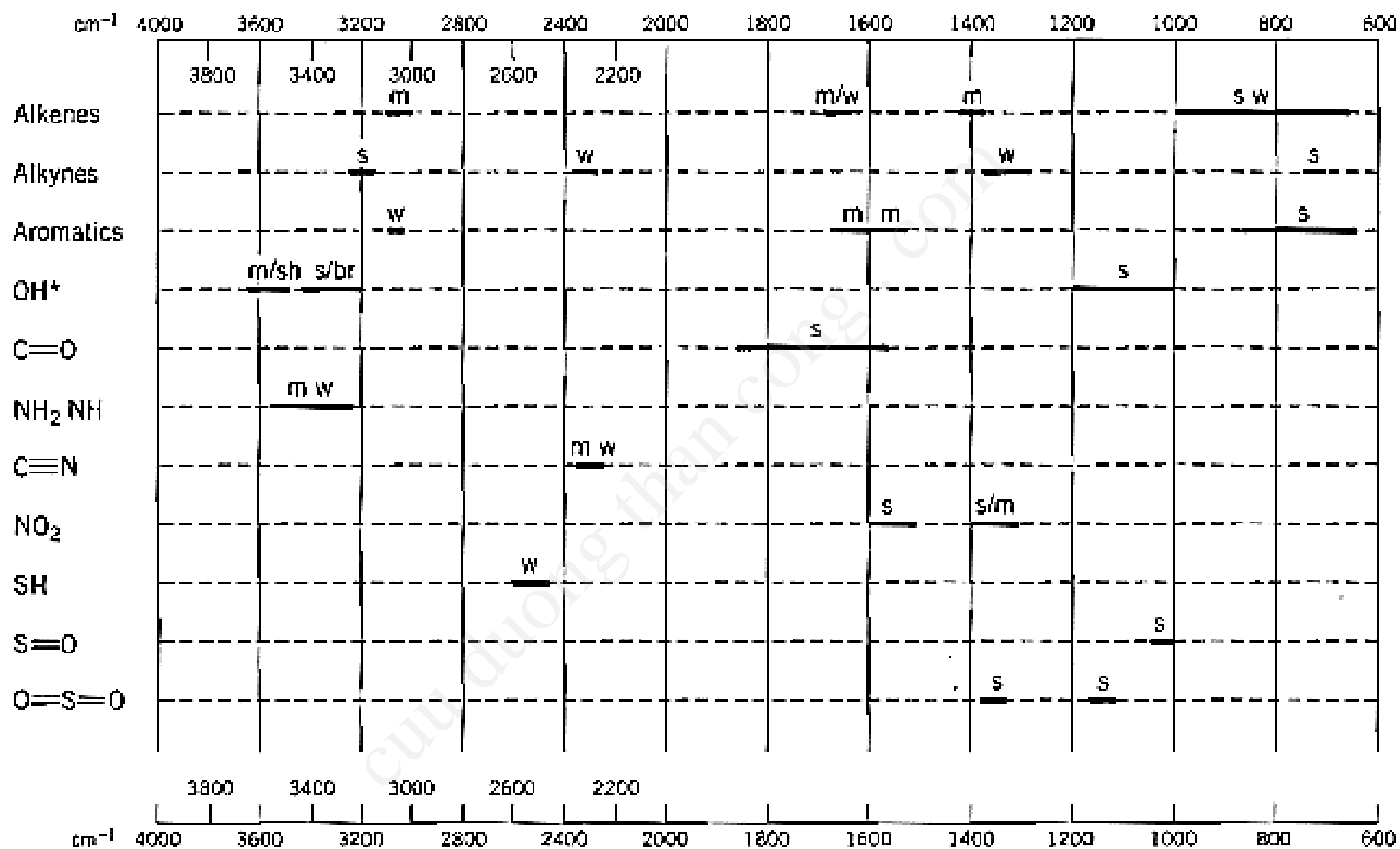


Characteristic absorptions of carbonyl groups

		Wavenumber (cm ⁻¹)
RCOCl	acyl chloride	1815-1790
RCOOR'	aliphatic ester	1750-1730
RCHO	aliphatic aldehyde	1740-1720
RCOOH	aliphatic acid	1725-1700
RCOR'	aliphatic ketone	1725-1700
ArCHO	aromatic aldehyde	1715-1695
ArCOR	aromatic ketone	1700-1680
ArCOAr	diaromatic ketone	1670-1650
RCONH ₂	aliphatic amide	1680-1640

Abbreviations used:
 w = weak, m = medium, s = strong,
 vs = very strong, v = variable,
 br = broad, sh = sharp.





*Free OH, medium and sharp; bonded OH, strong and broad

FIGURE 2.7. Simplified chart of several common functional groups with very characteristic absorptions. s = strong, m = medium, w = weak, sh = sharp, br = broad.