

Figure 2.5 Normalized propagation constant b as a function of normalized frequency V for a few low-order fiber modes. The right scale shows the mode index \bar{n} . (After Ref. [31]. ©1981 Academic Press. Reprinted with permission.)

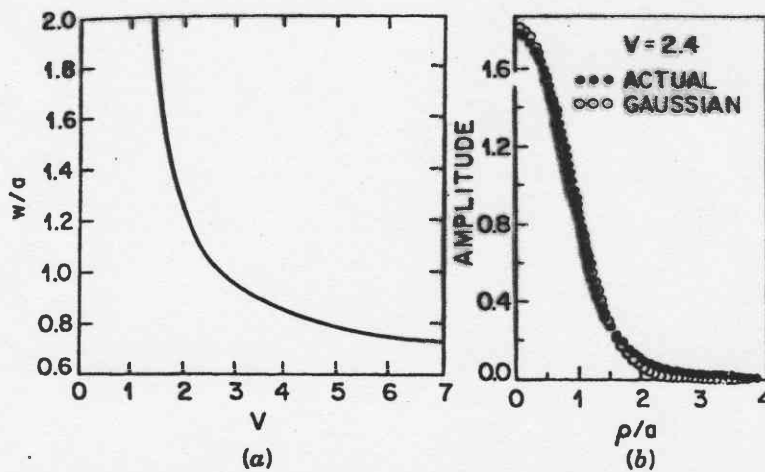


Figure 2.7 (a) Normalized spot size w/a as a function of the V parameter obtained by fitting the fundamental fiber mode to a Gaussian distribution; (b) quality of fit for $V = 2.4$. (After Ref. [32]. ©1978 OSA. Reprinted with permission.)

Table 2.1 Characteristics of several commercial fibers

Fiber Type	NA	Δ (%)	$2w$ (μm)	λ_{ZD} (μm)	GVD Slope S' [ps/(km-nm ²)]
Corning SMF-28	0.13	0.36	9.3	1.312	0.090
AT&T Matched-Clad	0.12	0.33	9.3	1.312	0.088
LITESPEC GSM-13	0.12	0.33	9.3	1.312	0.087
Corning SMF-DS	0.17	0.90	8.1	1.550	0.075
AT&T TrueWave	0.16	0.75	8.4	1.530	0.095
LITESPEC DSM-15	0.17	0.90	8.0	1.555	0.072