

AD736000

TR-20-Vol. 1
AD-673 808
TR-20 (Vol. 1, App. C)
September 1971

OCD STANDARD METHOD
FOR FALLOUT GAMMA RADIATION SHIELDING ANALYSIS-- SEPTEMBER 1971

CHARTS

Chart 1A	Solid Angle Fraction	C-2
Chart 1B	Limited Field Solid Angle Fraction	C-3
Chart 2	Geometry Factors, Scatter and Skyshine	C-4
Chart 3A	Geometry Factor, Direct ($\omega = 0$ to 0.9)	C-5
Chart 3B	Geometry Factor, Direct ($\omega = 0.9$ to 0.99)	C-6
Chart 4	Shape Factor	C-7
Chart 5	Scatter Fraction	C-8
Chart 6	Exterior Wall Barrier Factor	C-9
Chart 7	Interior Partition Attenuation Factors	C-10
Chart 8A	Ceiling Attenuation Factor	C-11
Chart 8B	Floor Attenuation Factor	C-12
Chart 9	Overhead Contribution	C-13
Chart 10A	Limited Field Barrier Factor ($2\omega_s = 0.002$ to 0.8)	C-14
Chart 10B	Limited Field Height Factor ($2\omega_s = 0.8$ to 1.0)	C-15
Chart 11	Passageways and Shafts	C-16

D D C
RECEIVED
FEB 4 1972
REGULATED
A

DISTRIBUTION STATEMENT A
Approved for public release
Distribution Unlimited

Reproduced by
NATIONAL TECHNICAL
INFORMATION SERVICE
Springfield, Va. 22151

16

20050323120

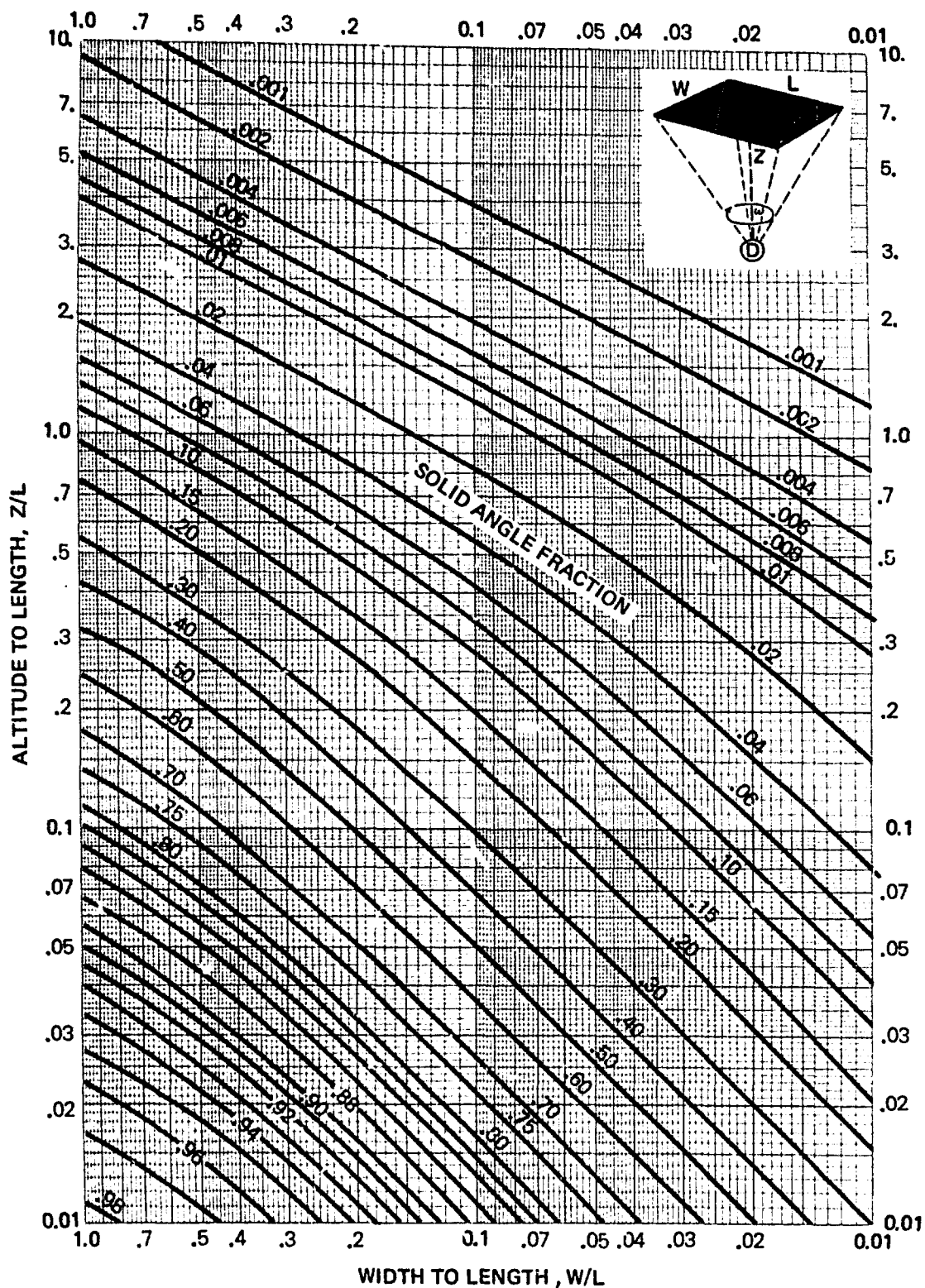


CHART 1 A
 SOLID ANGLE FRACTION, $\omega(W/L, Z/L)$
 C-2

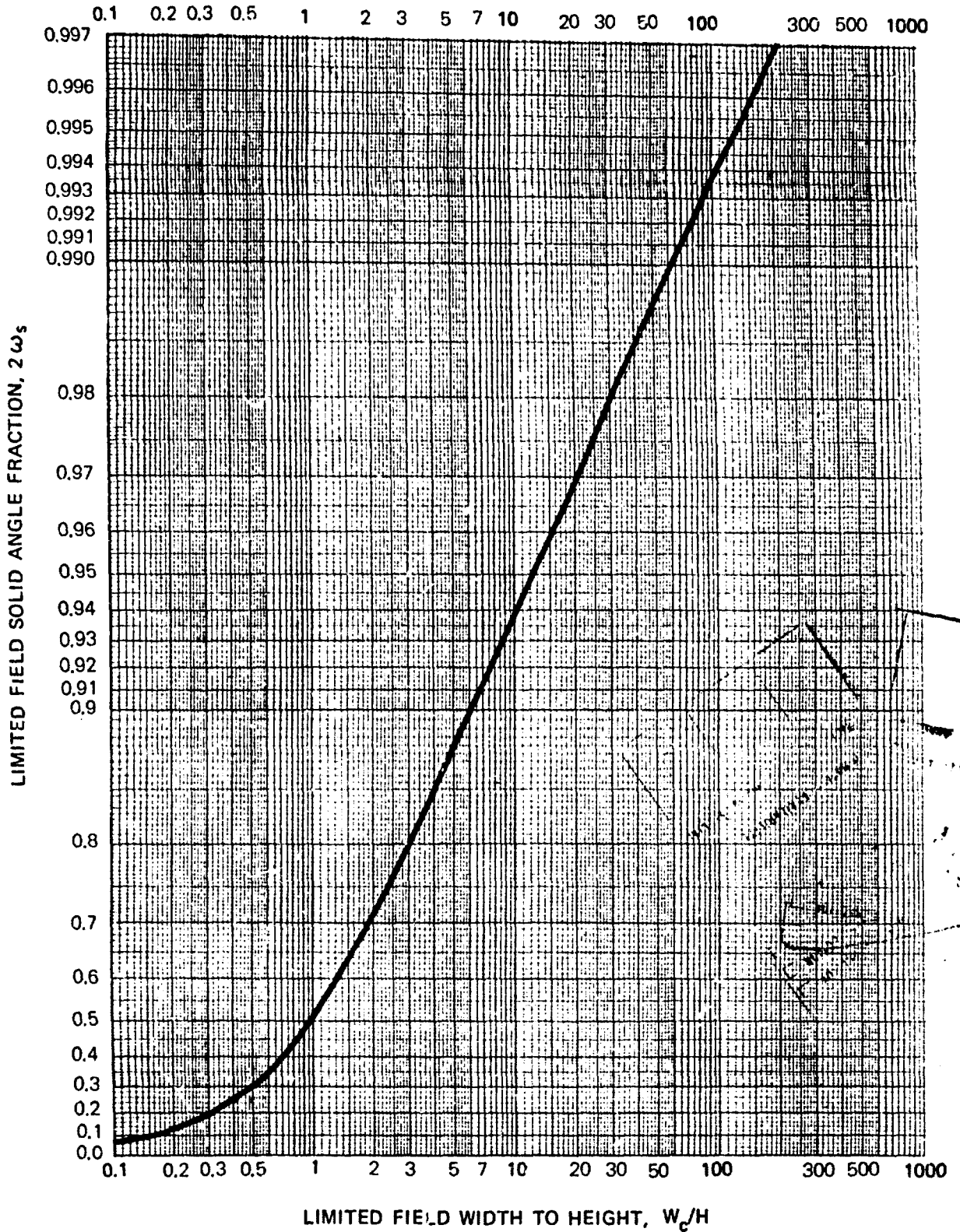


CHART 1B
 LIMITED FIELD SOLID ANGLE FRACTION, $2\omega_s$
 C3

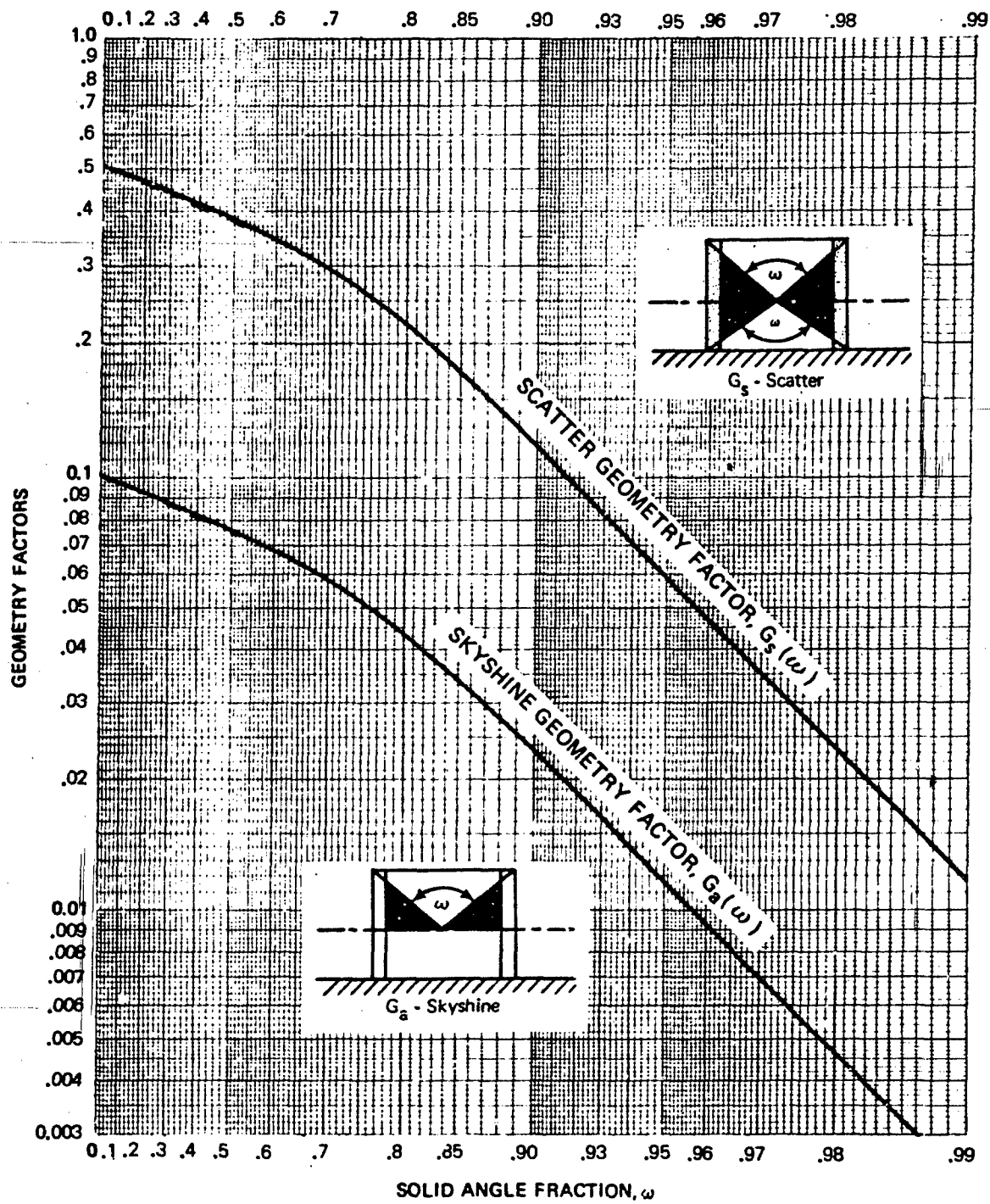


CHART 2
 GEOMETRY FACTORS - SCATTER, $G_s(\omega)$ AND SKYSHINE, $G_a(\omega)$

C-4

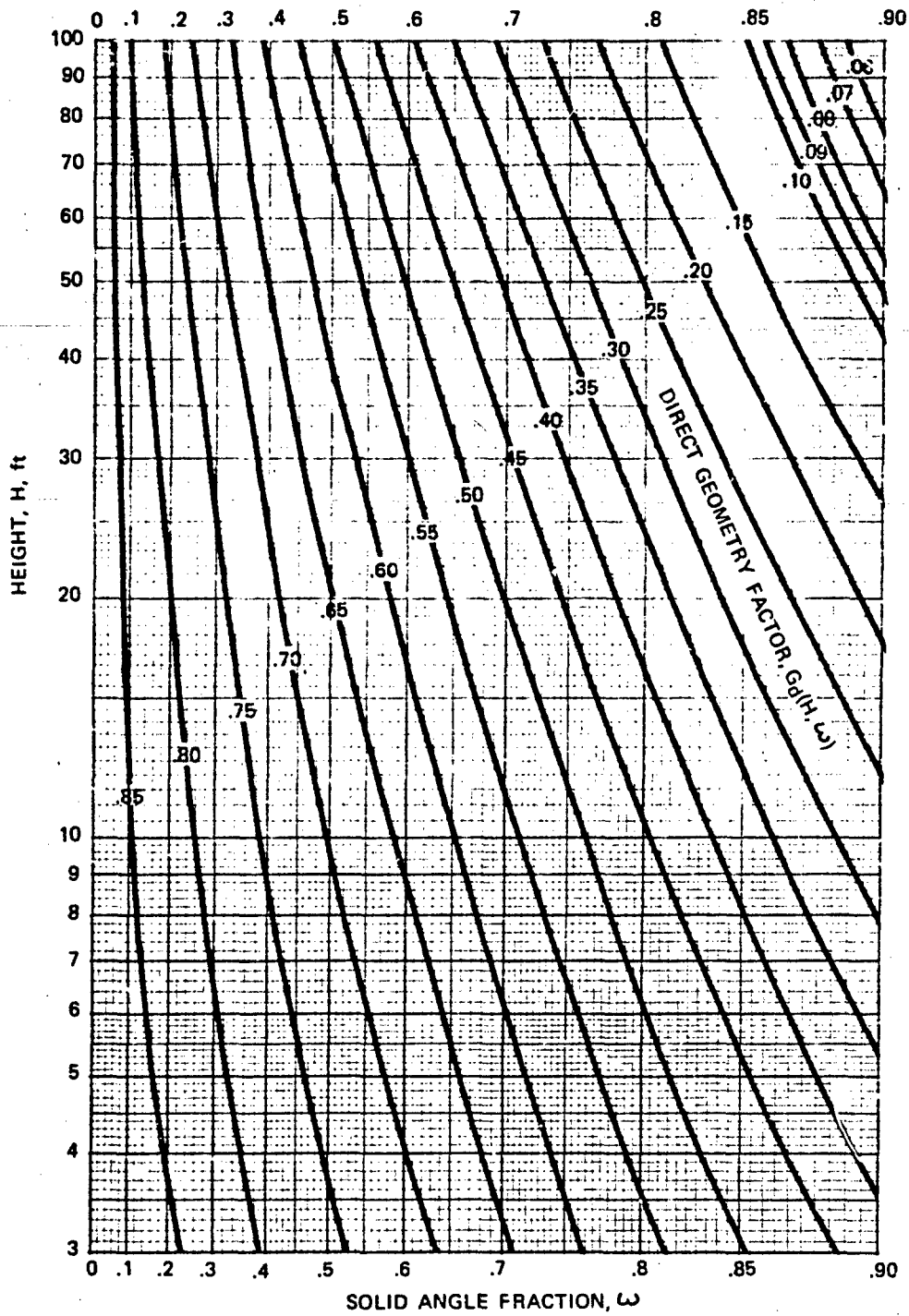


CHART 3A
 GEOMETRY FACTOR - DIRECT, $G_d(H, \omega)$
 C-5

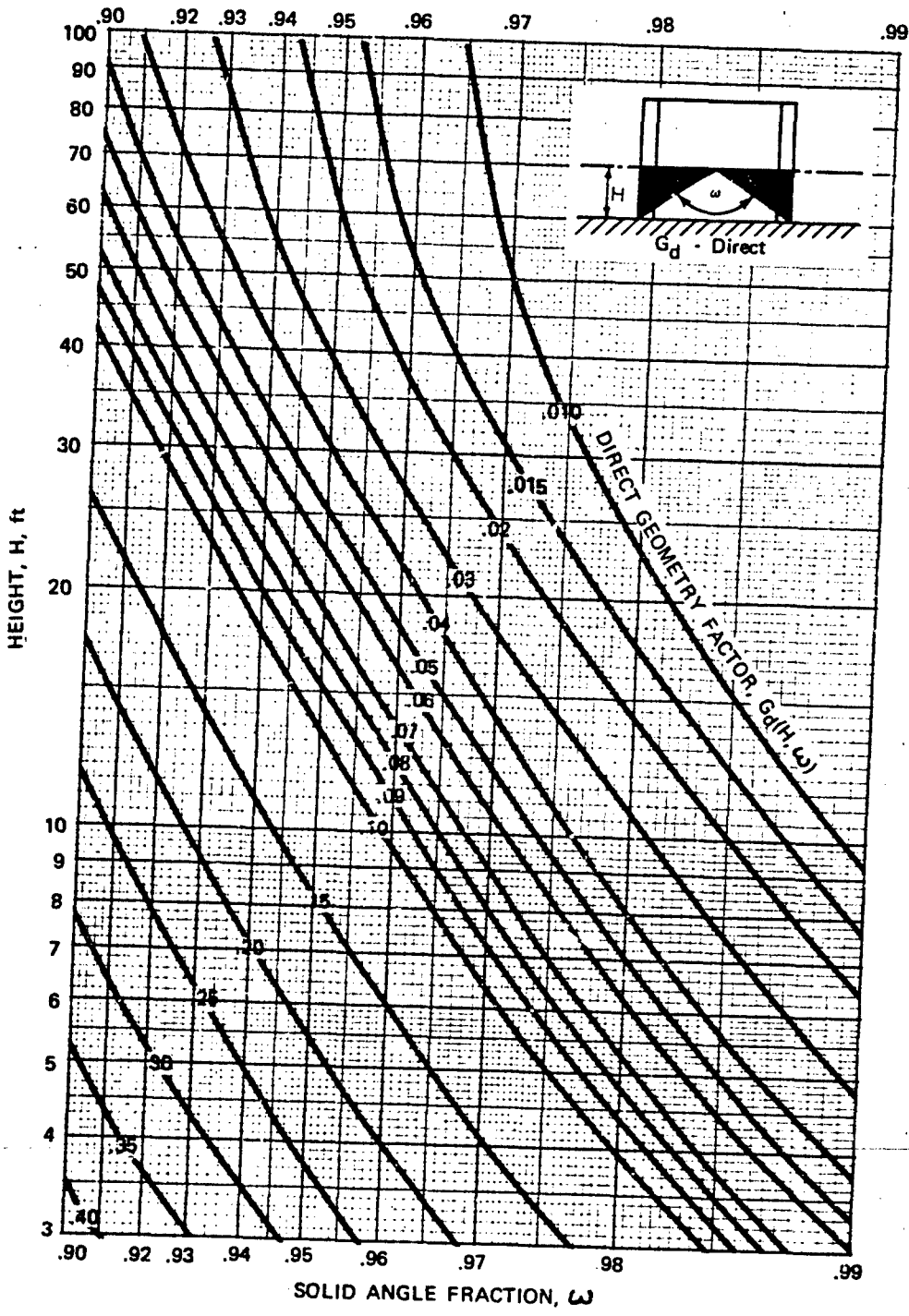
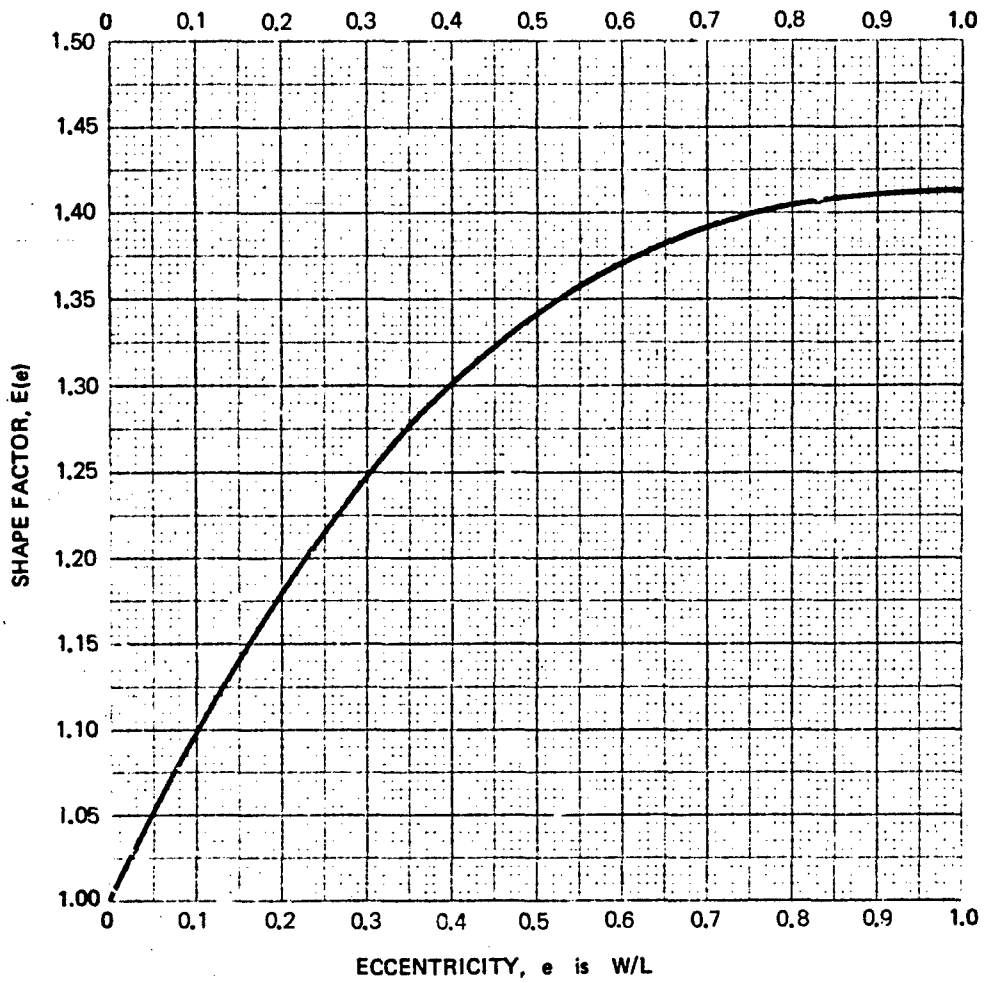
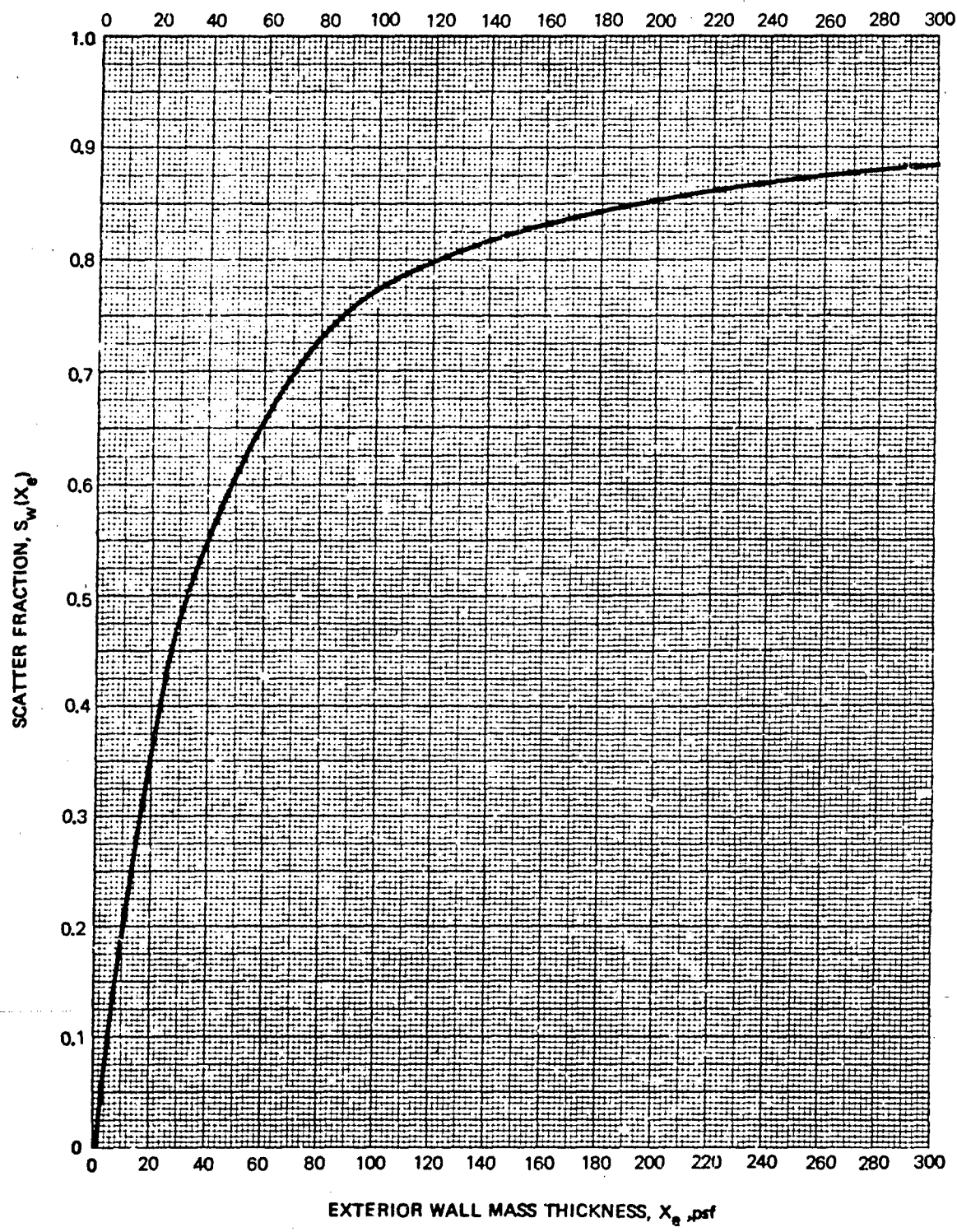


CHART 3B
 GEOMETRY FACTOR - DIRECT, $G_d(H, \omega)$
 C-6



E(e) FOR CIRCULAR STRUCTURES IS $\frac{\pi}{2} = 1.571$

CHART 4
SHAPE FACTOR, E(e)
C-7



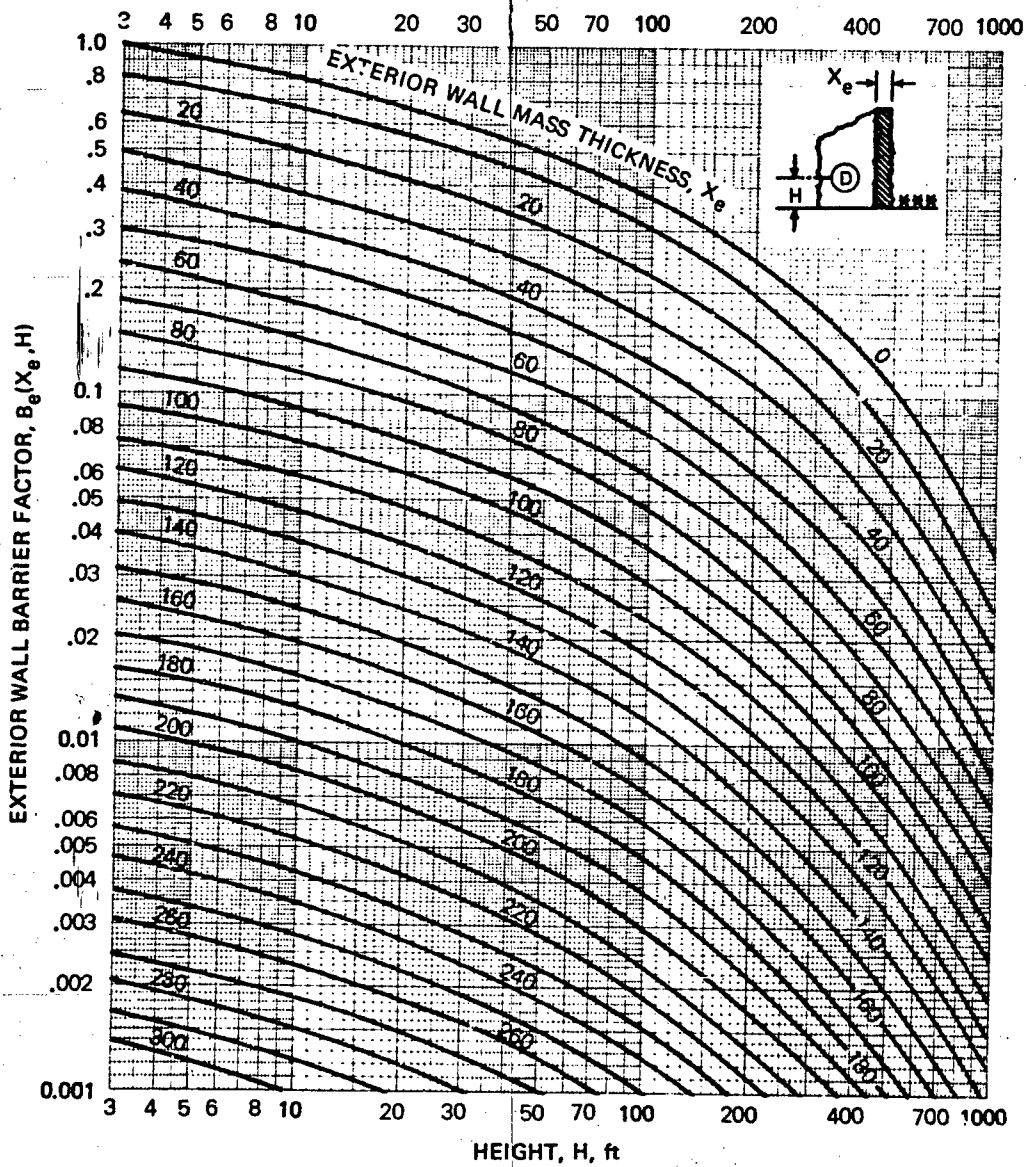


CHART 6
EXTERIOR WALL BARRIER FACTOR, $B_e(X_e, H)$

C-9

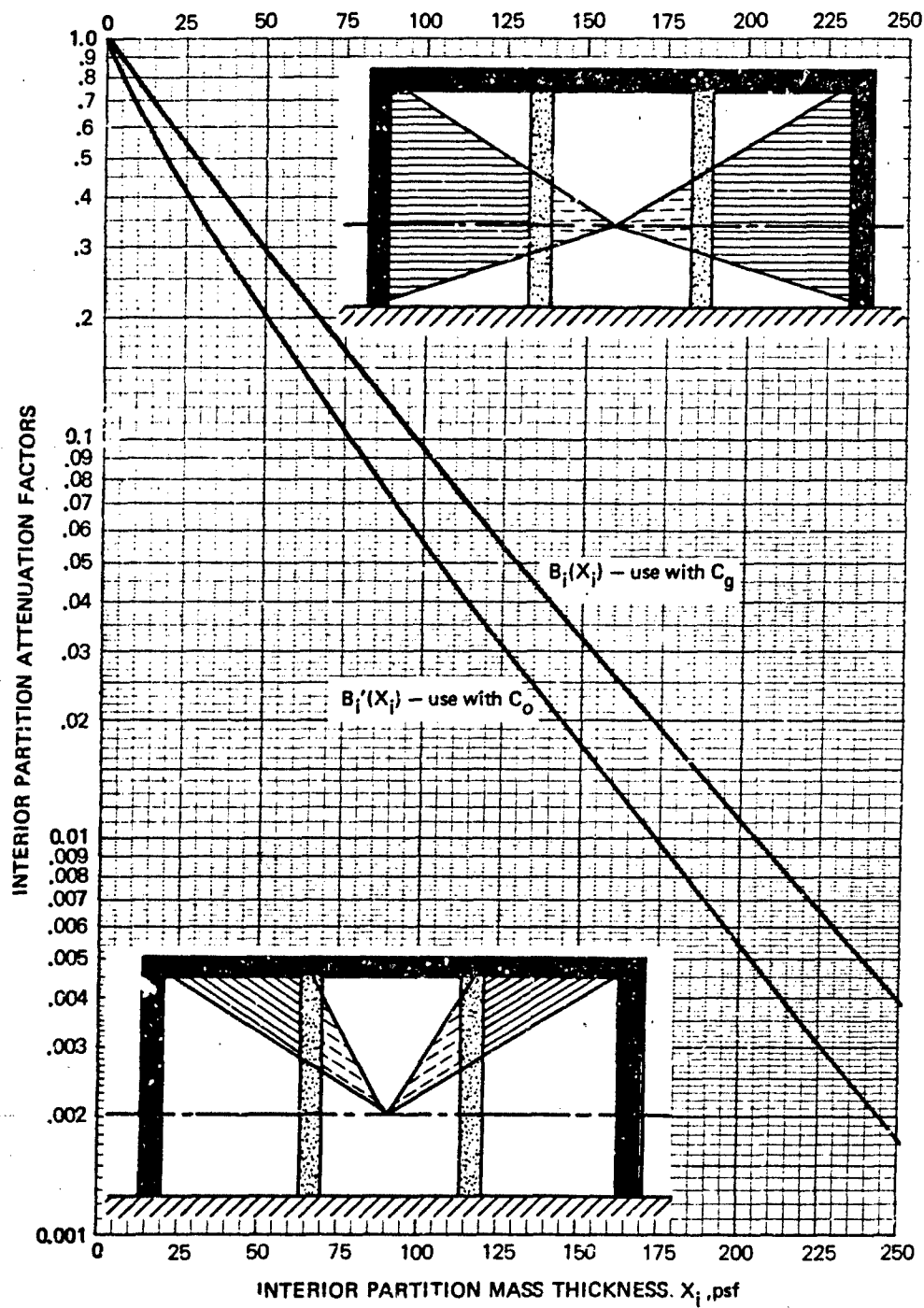


CHART 7
 INTERIOR PARTITION ATTENUATION FACTORS, $B_i(X_i)$ and $B_i'(X_i)$
 C-10

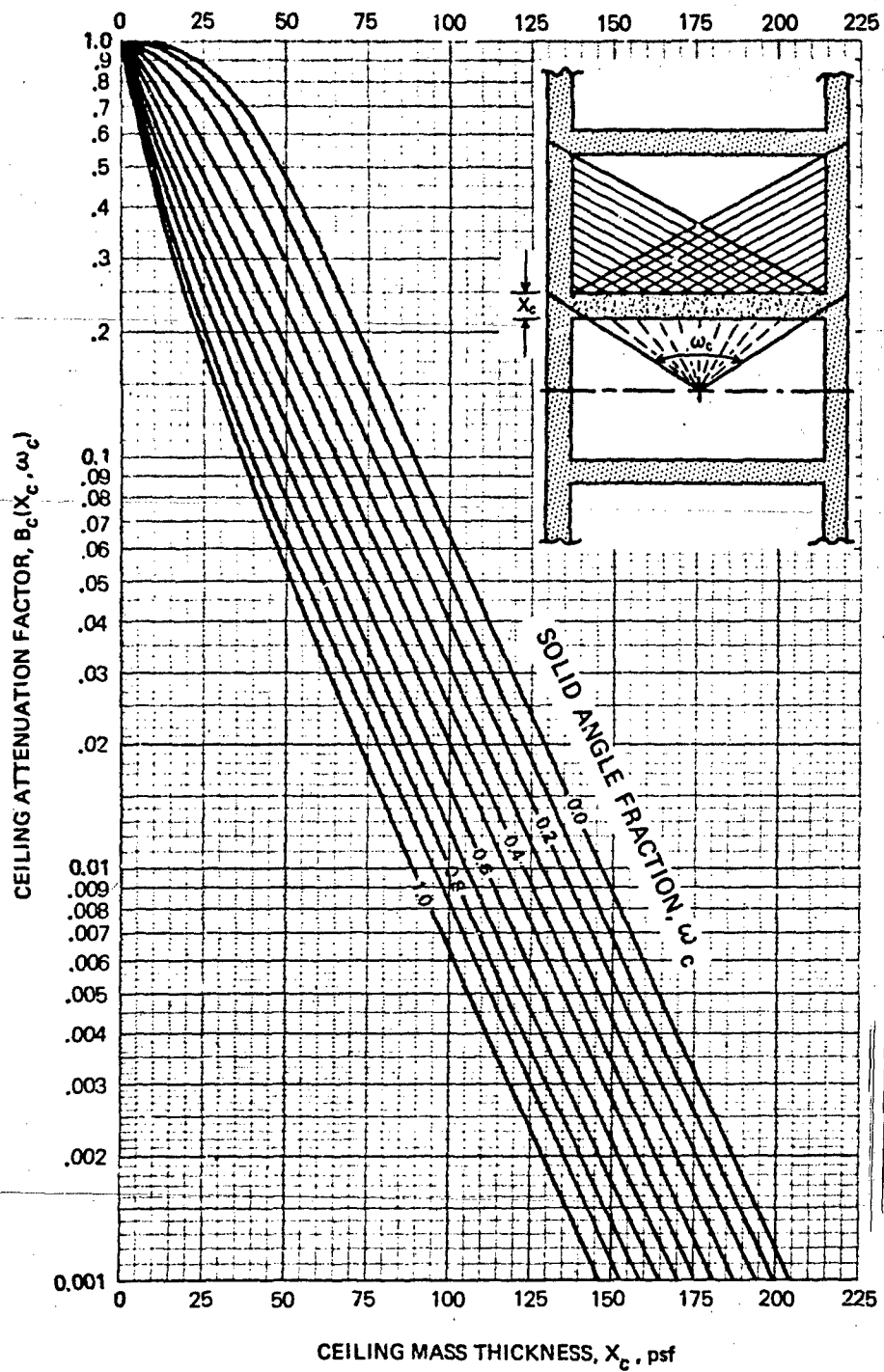


CHART 8A
 CEILING ATTENUATION FACTOR, $B_c(X_c, \omega_c)$
 C-11

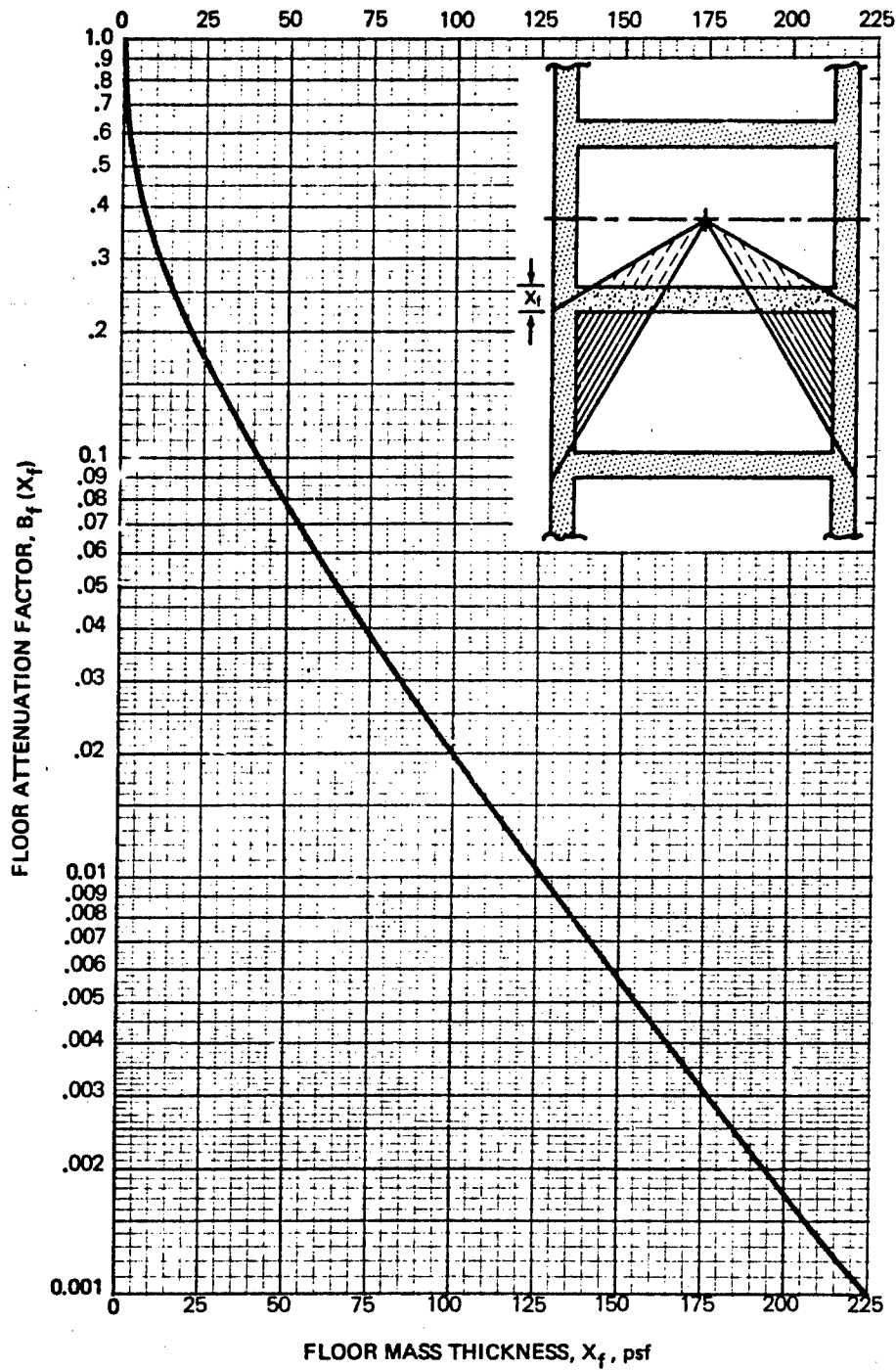


CHART 8B
 FLOOR ATTENUATION FACTOR, $B_f(X_f)$
 C-12

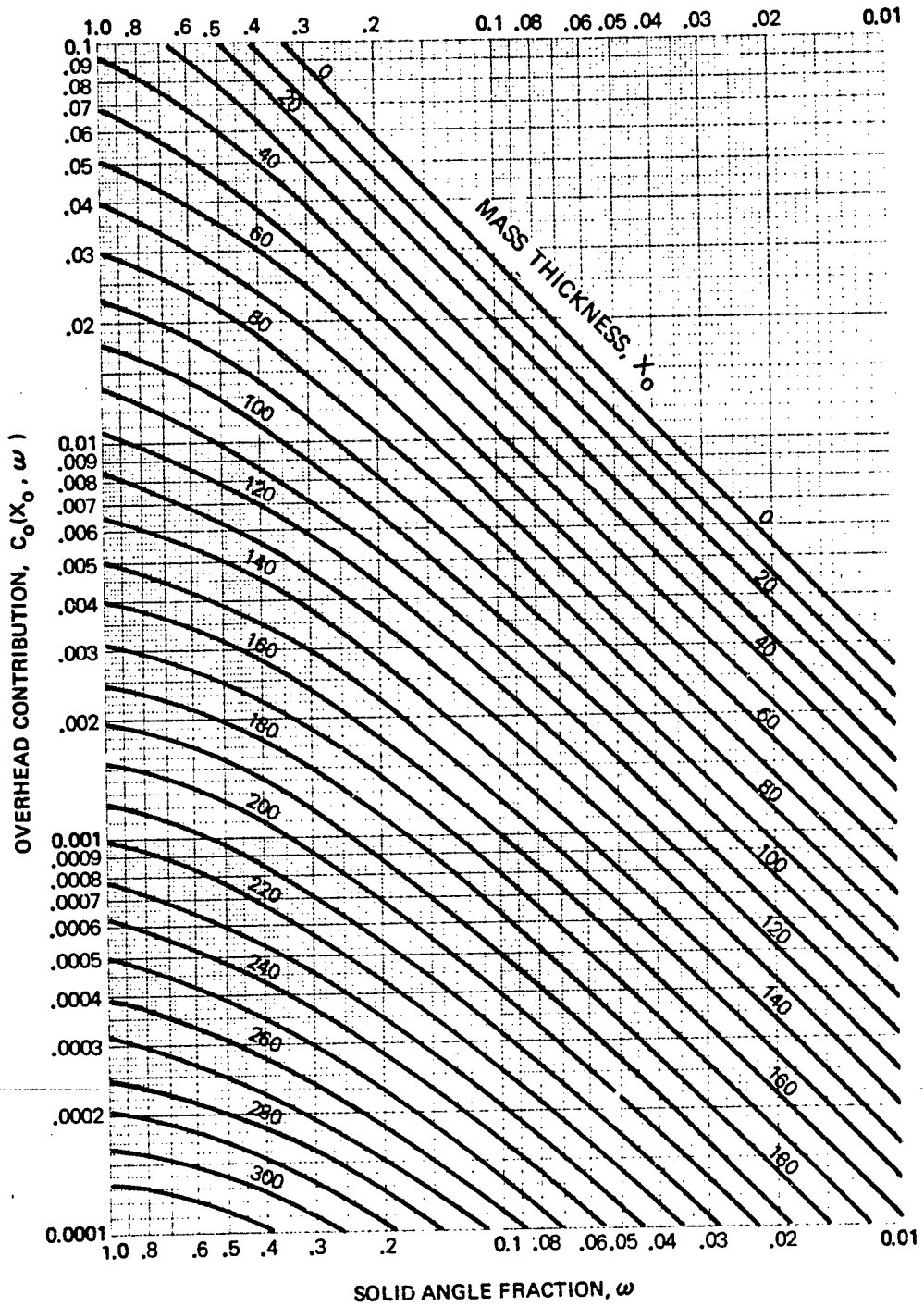


CHART 9
 OVERHEAD CONTRIBUTION, $C_0(X_0, \omega)$
 C-13

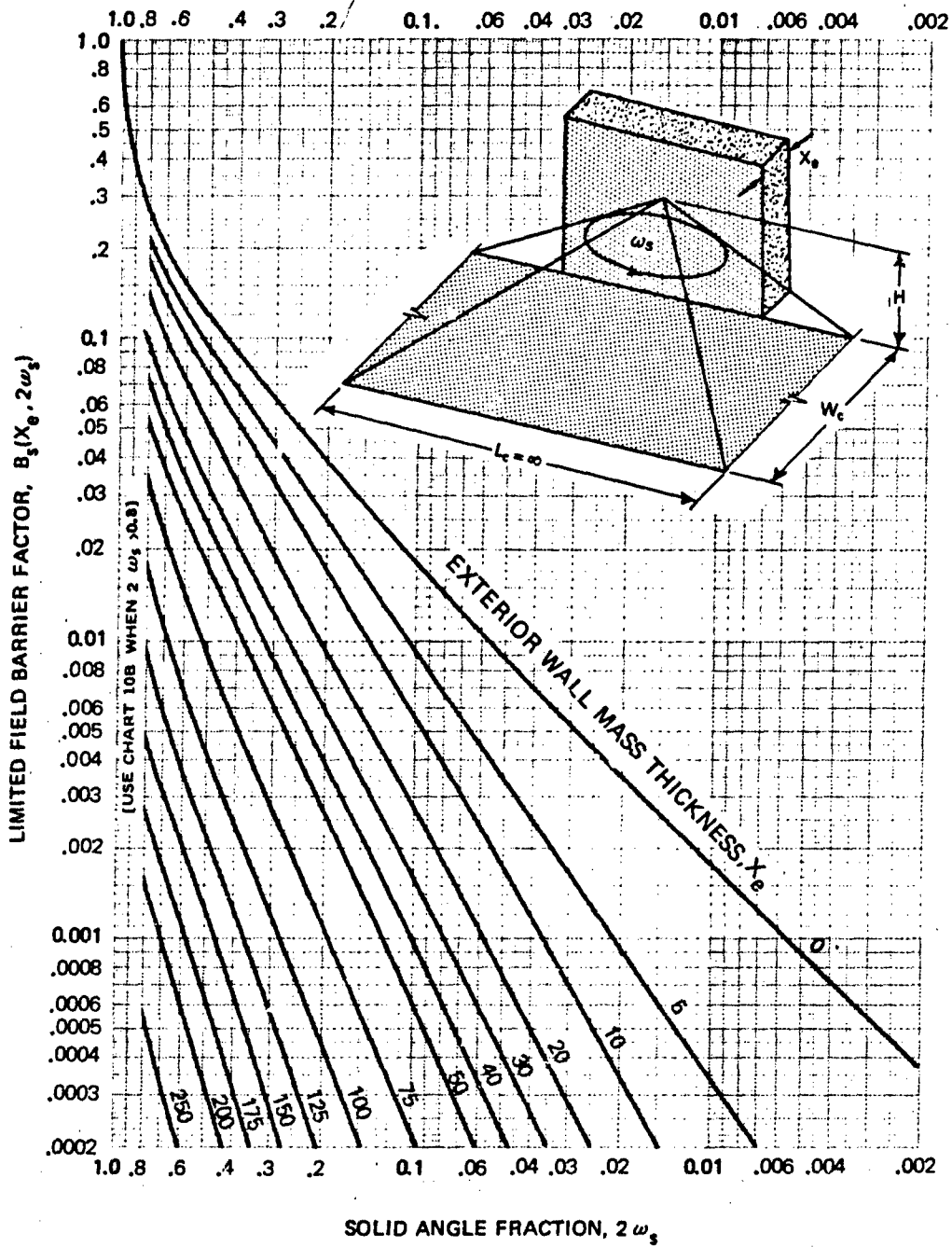


CHART 10A
 LIMITED FIELD BARRIER FACTOR, $B_s(X_e, 2\omega_s)$

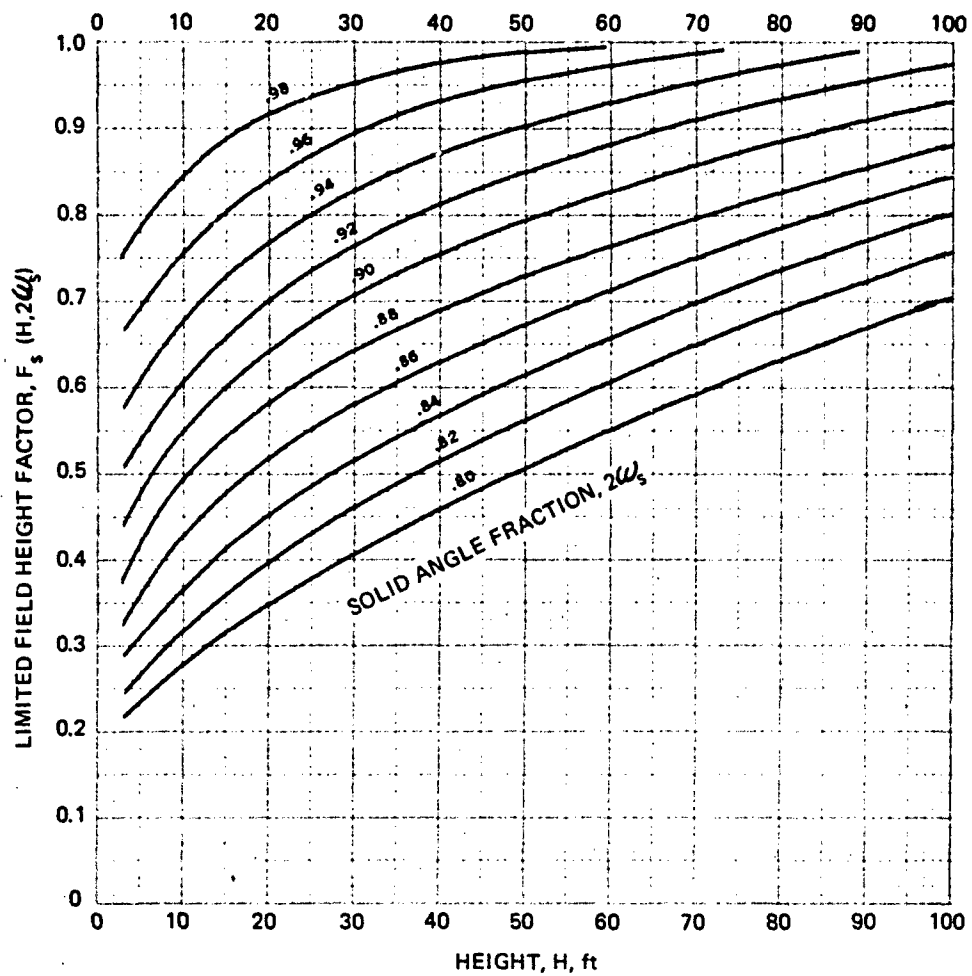
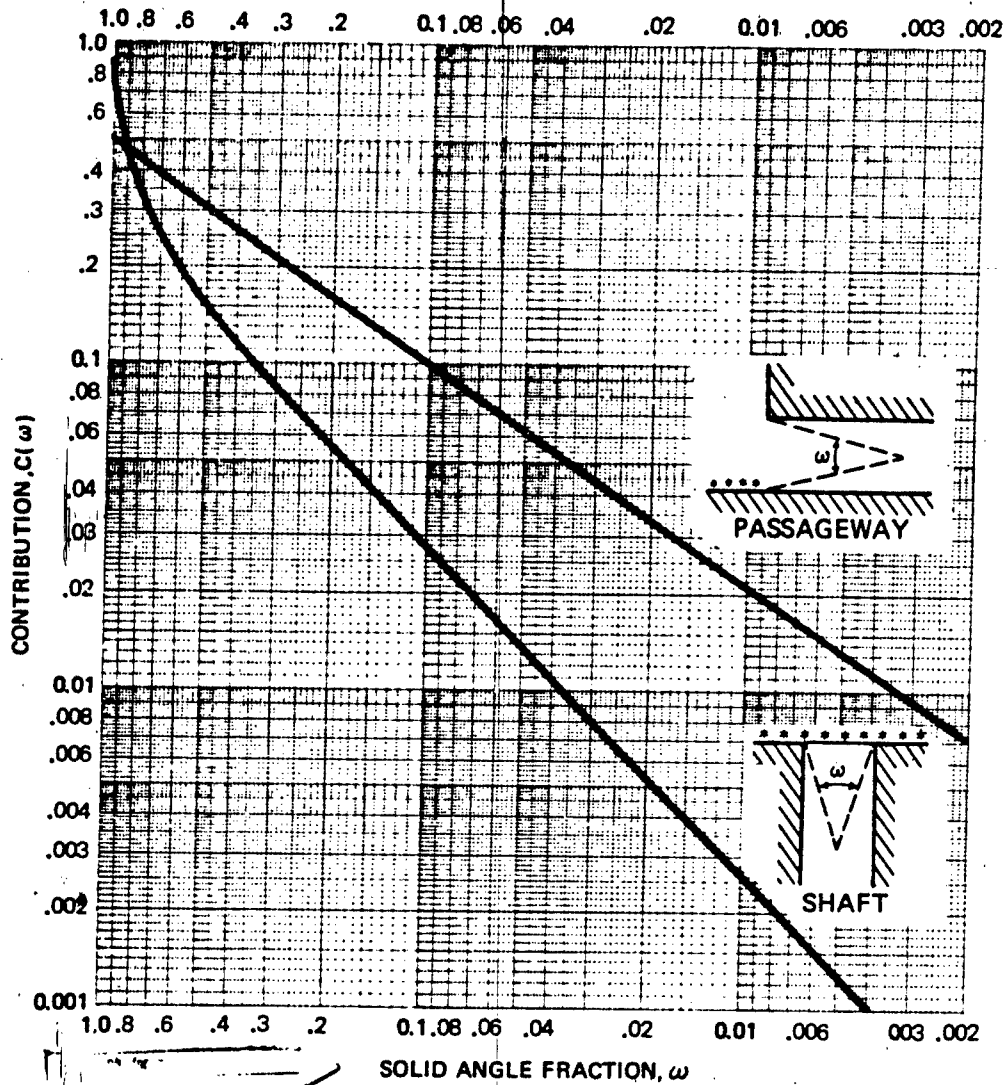


CHART 10B

LIMITED FIELD HEIGHT FACTOR, $F_s(H, 2\omega_s)$

$$B_s(X_e, 2\omega_s) = F_s(H, 2\omega_s) \cdot B(X_e, H)$$



DATE	WHITE SECTION <input checked="" type="checkbox"/>
NO.	DIFF SECTION <input type="checkbox"/>
APPROVED	<input type="checkbox"/>
JUSTIFICATION	
BY	
DISTRIBUTION/AVAILABILITY CODES	
REF.	AVAIL. CODE/REF.
A	1

CHART 11
PASSAGEWAYS AND SHAFTS, $C(\omega)$