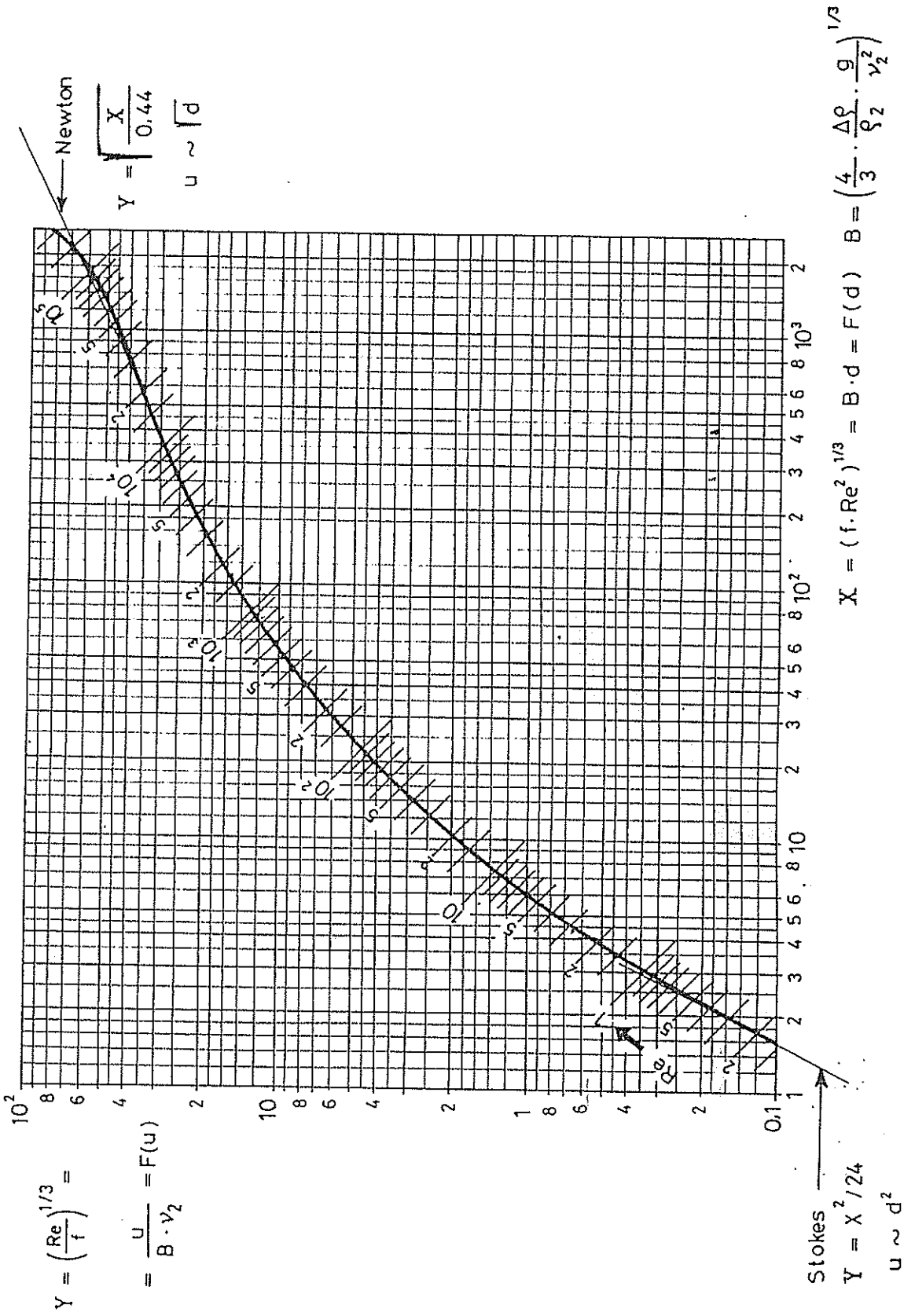
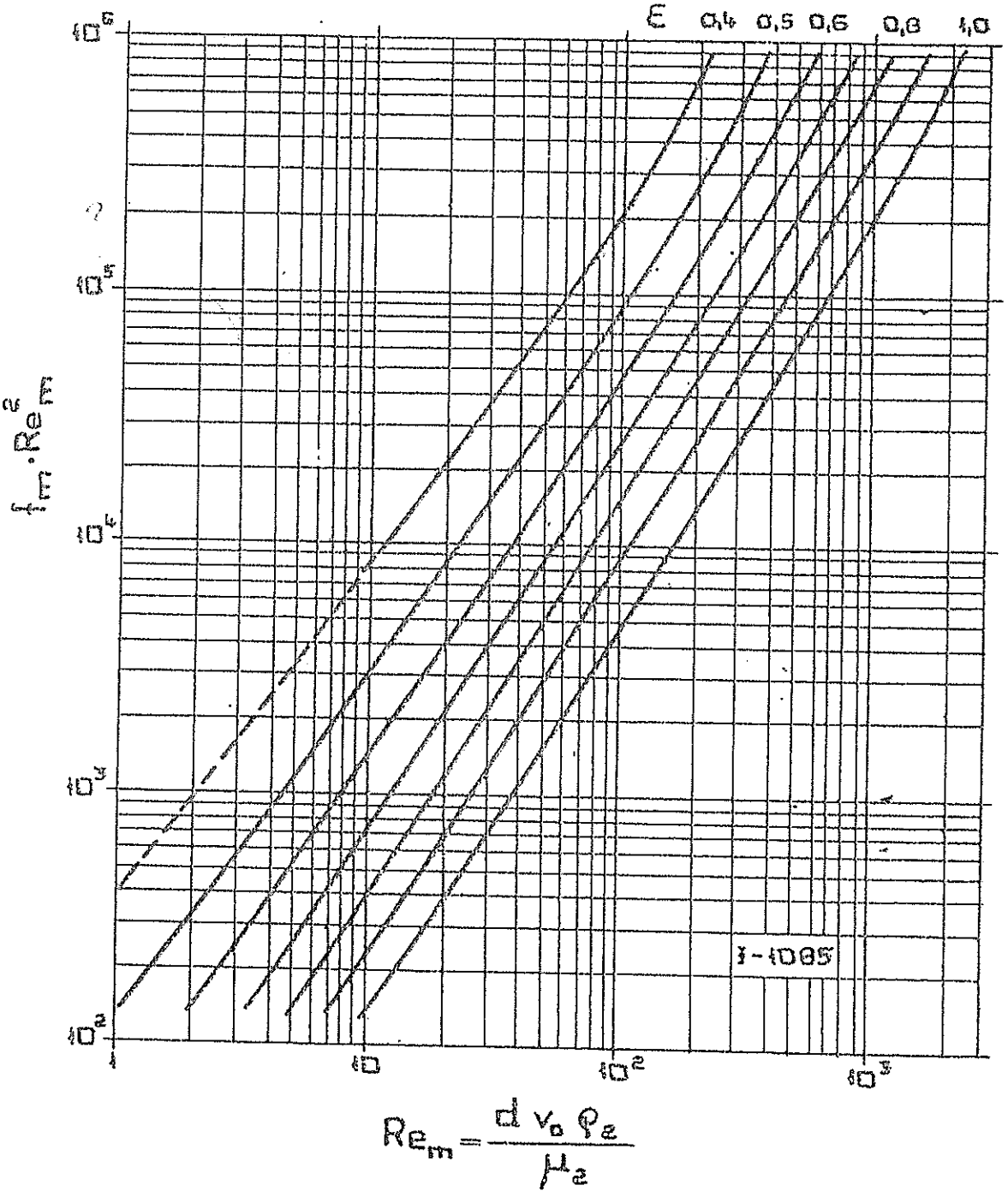


Generalized settling plot F(d) F(u)



$f_m Re_m^2$ – Re_m plot for packed columns

Constants for computing power consumption of mixers

Mixer type	Geometry data			Constants		Note
	H/d	*D/d*	*h/d*	*A*	*s*	
1. Twin blade stirrer	2	2	0,36	111,0 14,35	1,0 0,31	$Re < 20$ $Re = 100 \div 5 \cdot 10^4$
2. Twin blade stirrer	3	3	0,33	6,8	0,2	
3. Twin blade stirrer bent in 45°	3	3	0,33	4,05	0,2	
4. Four blade stirrer	3	3	0,33	8,52	0,2	
5. Four blade stirrer bent in 45°	3	3	0,33	5,05	0,2	
6. Four blade stirrer bent in 60°	3	3	0,33	6,30	0,18	
7. Twin arms anchor stirrer	1,11	1,11	0,11	6,2	0,25	
8. Four arms anchor stirrer	1,11	1,11	0,11	6,0	0,25	
9. Two-blade propeller mixer bent in 22.5°	3	3	0,33	0,985	0,15	
10. Three-blade propeller mixer bent: *d*	3,5	3,8	1	230 4,63 1,19	1,67 0,35 0,15	$Re < 30$ $Re < 3 \cdot 10^3$ $Re > 3 \cdot 10^3$
11. Three-blade turbine mixer with inlet opening 37 mm	3	3	0,33	3,90	0,2	
12. Six-blade turbine mixer with leading wheel	1,78	2,4	0,25	5,98	0,15	