

Table 11-4. Product Moment Correlation Coefficients Corresponding to Various Proportions of Successes in the 29% Scoring Highest and Lowest*

Percentage of successes in the 29% scoring highest (top 9% weighted 2, next 20% weighted 1)

	1	2	3	4	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	96	97	98	99
1	00	10	16	21	24	37	45	50	55	59	62	65	67	70	72	74	77	78	81	83	85	87	90	91	92	93	94
2	-10	00	06	11	15	28	36	43	47	52	55	59	62	64	67	70	72	75	77	79	82	85	89	89	90	91	93
3	-16	-06	00	05	09	22	30	37	42	47	51	55	58	61	64	66	69	72	75	77	80	83	87	88	89	90	92
4	-21	-11	-05	00	04	17	26	33	38	43	47	51	54	57	61	63	66	69	72	75	78	81	86	87	88	89	91
5	-24	-15	-09	-04	00	14	23	29	34	40	44	48	51	55	58	61	64	67	70	73	77	80	84	86	87	89	90
10	-37	-28	-22	-17	-14	00	10	17	23	28	32	37	41	45	49	52	56	59	63	66	70	75	80	81	83	85	87
15	-45	-36	-30	-26	-23	-10	00	08	14	19	24	29	33	37	41	45	49	53	57	61	65	70	77	78	80	82	85
20	-50	-43	-37	-33	-29	-17	-08	00	06	12	17	22	26	31	35	39	43	47	52	56	61	66	73	75	77	79	83
25	-55	-47	-42	-38	-34	-23	-14	-06	00	06	11	16	20	25	29	34	38	42	47	52	57	63	70	72	75	77	81
30	-59	-52	-47	-43	-40	-28	-19	-12	-06	00	05	10	15	20	24	28	33	38	42	47	53	59	67	69	72	75	78
35	-62	-55	-51	-47	-44	-32	-24	-17	-11	-05	00	05	10	14	19	24	28	33	38	43	49	56	64	66	69	72	77
40	-65	-59	-55	-51	-48	-37	-29	-22	-16	-10	-05	00	05	10	14	19	24	28	34	39	45	52	61	63	66	70	74
45	-67	-62	-58	-54	-51	-41	-33	-26	-20	-15	-10	-05	00	05	10	14	19	24	29	35	41	49	58	61	64	67	72
50	-70	-64	-61	-57	-55	-45	-37	-31	-25	-20	-14	-10	-05	00	05	10	14	20	25	31	37	45	55	57	61	64	70
55	-72	-67	-64	-61	-58	-49	-41	-35	-29	-24	-19	-14	-10	-05	00	05	10	15	20	26	33	41	51	54	58	62	67
60	-74	-70	-66	-63	-61	-52	-45	-39	-34	-28	-24	-19	-14	-10	-05	00	05	10	16	22	29	37	48	51	55	59	65
65	-77	-72	-69	-66	-64	-56	-49	-43	-38	-33	-28	-24	-19	-14	-10	-05	00	05	11	17	24	32	44	47	51	55	62
70	-78	-75	-72	-69	-67	-59	-53	-47	-42	-38	-33	-28	-24	-20	-15	-10	-05	00	06	12	19	28	40	43	47	52	59
75	-81	-77	-75	-72	-70	-63	-57	-52	-47	-42	-38	-34	-29	-25	-20	-16	-11	-06	00	06	14	23	34	38	42	47	55
80	-83	-79	-77	-75	-73	-66	-61	-56	-52	-47	-43	-39	-35	-31	-26	-22	-17	-12	-06	00	08	17	29	33	37	43	50
85	-85	-82	-80	-78	-77	-70	-65	-61	-57	-53	-49	-45	-41	-37	-33	-29	-24	-19	-14	-08	00	10	23	26	30	36	45
90	-87	-85	-83	-81	-80	-75	-70	-66	-63	-59	-56	-52	-49	-45	-41	-37	-32	-28	-23	-17	-10	00	14	17	22	28	37
95	-90	-89	-87	-86	-84	-80	-77	-73	-70	-67	-64	-61	-58	-55	-51	-48	-44	-40	-34	-29	-23	-14	00	04	09	15	24
96	-91	-89	-88	-87	-86	-81	-78	-75	-72	-69	-66	-63	-61	-57	-54	-51	-47	-43	-38	-33	-26	-17	-04	00	05	11	21
97	-92	-90	-89	-88	-87	-83	-80	-77	-75	-72	-69	-66	-64	-61	-58	-55	-51	-47	-42	-37	-30	-22	-09	-05	00	06	16
98	-93	-91	-90	-89	-89	-85	-82	-79	-77	-75	-72	-70	-67	-64	-62	-59	-55	-52	-47	-43	-36	-28	-15	-11	-06	00	10
99	-94	-93	-92	-91	-90	-87	-85	-83	-81	-78	-77	-74	-72	-70	-67	-65	-62	-59	-55	-50	-45	-37	-24	-21	-16	-10	00

Percentage of successes in the 29% scoring lowest (bottom 9% counted twice)

* Flanagan, J. C.: *Calculating Correlation Coefficients*. Pittsburgh, American Institute of Research, 1962. Adapted to 5-step interval and used by permission of John C. Flanagan. Copies of the complete table are available from the Institute at 410 Amberson Ave., Pittsburgh, Pa., 15232.

REINFORCEMENT TEST TABULATION SHEET

Name of Test: 200 Grade Concrete Test
 20 to Upper Groups, 20 to Lower Groups

200 mm x 200 mm
 28 Days Cure

Sl. No.	Date	Name of Test	Group	Specimen	Load	Displacement	Remarks
1	12/12/2023	200 Grade Concrete Test	20	200 mm x 200 mm	100 kN	1.5 mm	OK
2	12/12/2023	200 Grade Concrete Test	20	200 mm x 200 mm	100 kN	1.5 mm	OK
3	12/12/2023	200 Grade Concrete Test	20	200 mm x 200 mm	100 kN	1.5 mm	OK
4	12/12/2023	200 Grade Concrete Test	20	200 mm x 200 mm	100 kN	1.5 mm	OK
5	12/12/2023	200 Grade Concrete Test	20	200 mm x 200 mm	100 kN	1.5 mm	OK
6	12/12/2023	200 Grade Concrete Test	20	200 mm x 200 mm	100 kN	1.5 mm	OK
7	12/12/2023	200 Grade Concrete Test	20	200 mm x 200 mm	100 kN	1.5 mm	OK
8	12/12/2023	200 Grade Concrete Test	20	200 mm x 200 mm	100 kN	1.5 mm	OK
9	12/12/2023	200 Grade Concrete Test	20	200 mm x 200 mm	100 kN	1.5 mm	OK
10	12/12/2023	200 Grade Concrete Test	20	200 mm x 200 mm	100 kN	1.5 mm	OK

Sheet No. 9

	Classes				
	1 st	2 nd	3 rd	4 th	
Upper Group	40	0	0	0	$F_{U1} = 40\%$
Lower Group	0	10	14		$F_{L1} = 24\%$
Total	40	10	14	0	$D.R. = \frac{40}{160} = 25\%$

Correct answer

Figure 13-3. Calculation form for the Wood method of item analysis.

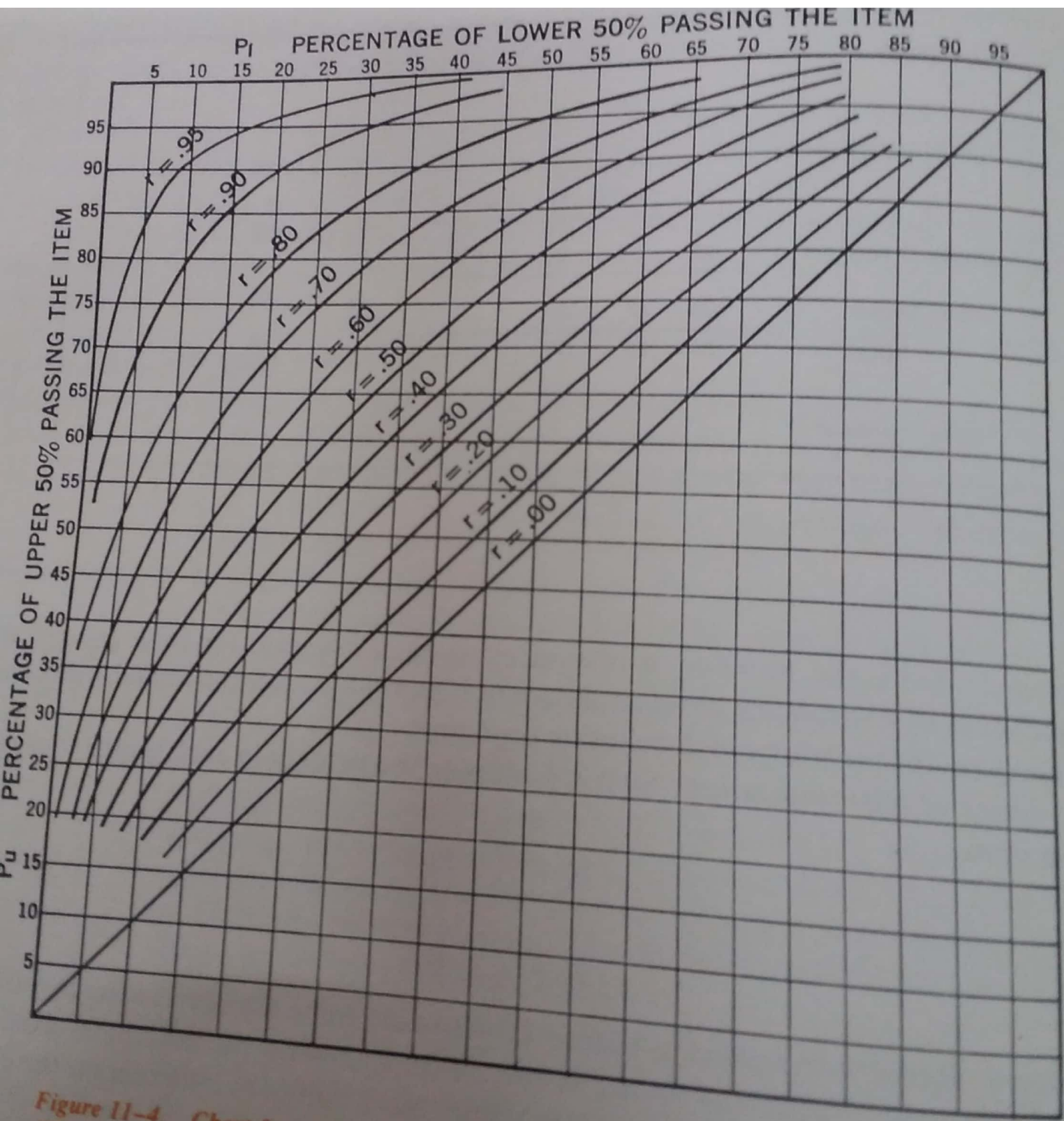


Figure 11-4. Chart for computing tetrachoric r with the criterion dichotomized at the median. (Wood, D. A.; Test Construction. Columbus, Ohio, Charles E. Merrill Books, Inc., 1960, p. 85. Used by permission of the publishers.)