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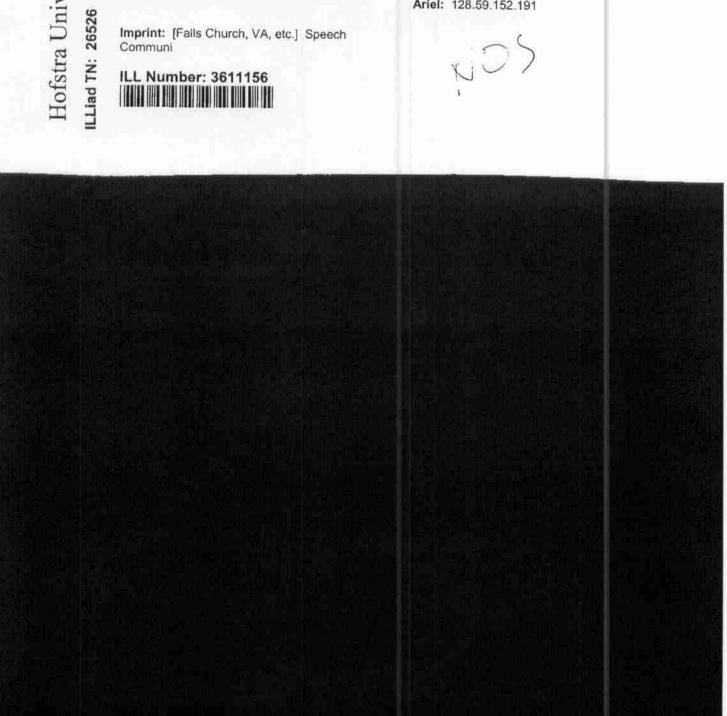
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DIMENSIONS OF COMMUNICATOR CREDIBILITY: AN OBLIQUE SOLUTION

CHRISTOPHER J. S. TUPPEN

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CEVERAL researchers have studied The dimensionality of perceived communicator credibility.1 They have all used rating scales of the semantic differential or Likert type for the collection of data, and they have all used factor analysis with orthogonal rotation in order to identify independent dimensions of credibility or acceptability. The main purpose of this paper is to present an oblique solution, and to argue that this fits the data better, offers richer opportunities for interpretation of the dimensions, and proves more effective in prediction of attitude change than an orthogonal solution.

In the most substantial published study, Berlo, Lemert, and Mertz obtained data on a large number of rating scales for several communicators from a representative sample of a specified population. The orthogonal dimensions resulting from the data were labeled safety, qualification, and dynamism. Very similar results have been obtained by other researchers; in some cases larger numbers of factors have been identified,

but such additional factors seem to account for negligible proportions of variance, and they often arise from a single pair of inter-correlated rating scales.

One might infer from these results that three clusters of variables should be visible when the factor loadings are plotted graphically. However, the data of Berlo, Lemert, and Mertz reveal five rather than three clusters of rating scales. The safety, qualification, and dynamism clusters are clearly revealed, but there are two additional clusters which have moderately high loadings on Factors 1 and 2. The authors did not discuss these last two clusters. Examination of the two un-named clusters suggested that important aspects of the communicator could be overlooked if attention were focused solely on the three orthogonal dimensions. The un-named clusters seem to involve respect, trust, and scholarship, which are qualities appreciably different from safety, qualification, and dyna-

It was also evident that the factor loadings of many of the rating scales in this study formed a broad arc, ranging from safety to qualification. This could be interpreted as indicating a simplex structure rather than an orthogonal factor structure. The simplex could be interpreted as showing that appropriate words in the English language can express many shades of meaning between the two extremes of safety and qualification. In this case, safety and qualification should be considered as the two extremes of a semantic spectrum, rather

Mr. Tuppen is Assistant Professor of Psychology at the University of British Columbia.

1 See Ronald F. Applbaum and Karl W. Anatol, "Factor Structure of Source Credibility at a Function of the Speaking Situation," SM, 39 (1972), 216-222; David K. Berlo, James B. Lemert and Robert J. Mertz. "Dimensions for Evaluating the Acceptability of Message Sources," Public Opinion Quarterly, 33 (1969), 563-576; Kim Giffin. "The Contribution of Studies of Source Credibility to a Theory of Interpersonal Trust in the Communication Process," Psychological Bulletin, 68 (1967), 104-120; and David Markham, "The Dimensions of Source Credibility of Television Newscasters." Journal of Communication, 18 (1968), 57-64.

SPEECH MONOGRAPHS, Vol. 41, Aug. 1974

than as "underlying" factors. This interpretation is substantially different from that made by Osgood, Suci, and Tannenbaum, whose studies of the measurement of meaning provide a basis from which the study of communicator dimensions has developed.

Social-psychological research on attitude change and conformity provides a further reason for doubting that the three-factor solution provides the final answer to the question of communicator dimensionality. This literature shows that interpersonal attractiveness is a relevant variable; yet none of the factor-analytic studies appears to have revealed it. Furthermore, the popular term "charisma" does not seem to have been captured by any of these studies. In view of these apparent omissions, it would be premature to choose between the simplex and factor models discussed above.

The present study represents an attempt to obtain an oblique solution, in which previously ignored clusters might be revealed as oblique dimensions, and in which the inclusion of scales measuring aspects of attractiveness and emotional appeal might lead to the identification of corresponding dimensions. A further reason for conducting this study was the fact that the relationships between communicator dimensions and persuasive effectiveness had not previously been investigated, and there was an evident need to extend dimensional studies in this direction.

МЕТНОВ

Subjects and Procedure

The 101 subjects were volunteers from various introductory behavioral sciences courses at three campuses in the San Francisco Bay area; the study took place in July 1970. The subjects read a booklet containing short character sketches of ten communicators. Immedi-

ately after reading each sketch, the subject rated the communicator on a series of 64 rating scales. In each subject's booklet, four of the communicators were presented as delivering a persuasive message, while the other six communicators were evaluated without an accompanying message. The orders of presentation of the ten communicators, and their pairing with the four messages, were varied systematically.

Communicators and Messages

The ten communicators, who were fictitious, were presented as individuals who had expressed their points of view on a recent radio program. The character sketches, about 300 words in length, were selected in order to present a variety of communicators, who were considered likely to provide a range of perceived trustworthiness, expertise, and attractiveness. The ten communicators were a student, a professor, an advertising executive, a farmer, an unethical businessman, a doctor, a retired army officer, a man of religion, a hippie, and a television personality. The topics of the four messages were: how many hours of sleep you need; marijuana and health; duration of U.S. involvement in S.E. Asia; and tuition fees at State Colleges.2

Rating Scales

A total of 28 bipolar-adjective scales and 36 seven-point Likert scales were used. Some of the scales were devised by the writer; the majority were selected from previous studies.³

² Full details are provided in Christopher J. S. Tuppen, "Perceptions of Source Credibility and Change in Attitudes," (Doctoral dissertation, University of California, Berkeley) Ann Arbor, Mich.: University Microfilms (1971) Order No. 71-20, 917.

² See Berlo, Lemert and Mertz; Markham. Herbert C. Kelman and Alice H. Eagly, "Attitude toward the Communicator, Perception of Communication Content and Attitude Change," From the rat made by 101 sul of complete ratii were available for

The technique mensional study The results of a ble an oblique the two method quite different a puting a correlat ing communalitie cal cluster analy followed by a pr the researcher m of any cluster of increase collinear facilitate interpre that no variable of more than one

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4 Robert C. Tryon Cluster Analysis (New ich sketch, the subinicator on a series. In each subject's ommunicators were ring a persuasive her six communicawithout an accomte orders of presenommunicators, and the four messages, ically.

Messages

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and Mertz; Markham; l Alice H. Eagly, "Attitunicator, Perception of and Attitude Change."

RESULTS

From the ratings of the ten sources made by 101 subjects, a total of 973 sets of complete ratings of individual sources were available for analysis.

The technique selected for oblique dimensional study was cluster analysis.4 The results of such an analysis resemble an oblique factor solution, though the two methods are computationally quite different after the stages of computing a correlation matrix and estimating communalities. Typically, an empirical cluster analysis is first performed, followed by a pre-set analysis, in which the researcher may modify the definers of any cluster of variables, in order to increase collinearity and reliability, to facilitate interpretation, and to ensure that no variable is selected as a definer of more than one cluster.

In this case, the *empirical* analysis yielded a solution with four oblique clusters, but the fourth cluster was not readily interpretable, nor were its definers highly collinear. It was decided that the fourth cluster could be divided into two, this procedure being justifiable both in terms of meaning and in terms of the spatial configuration of the variables. Accordingly, a *pre-set* analysis was performed. The results are summarized in Tables I and 2, and in Figures 1 and 2.

Cluster Five was found to have the greatest generality, accounting for 66 per cent of the communality, followed by Clusters One (64 per cent), Four (59 per cent), Two (49 per cent), and Three (16 per cent). These percentages summate to over 100 because the clusters were oblique: all clusters except Three were

Journal of Personality and Social Psychology, 1 (1965), 63-78; and James C. McCroskey, "Scales for the Measurement of Ethos," SM, 33 (March, 1966), 65-79.

⁴ Robert C. Tryon and Daniel E. Bailey, Cluster Analysis (New York: McGraw-Hill, 1970). substantially inter-related. The configurations can be seen on Figures 1 and 2, in which the variables are represented as points on the surface of a sphere. (In the BCTRY system, these are termed "SPAN" diagrams.) The alpha-reliabilities of the cluster scores were high, ranging from .851 to .965.

The proportion of total variance accounted for was 63 per cent. This figure is very close to the results of Berlo's two studies (62 and 60 per cent) and Markham's study (62 per cent).

DISCUSSION

The first three clusters found in this study were very similar to the dimensions identified by Berlo, Lemert and Mertz. The first cluster has been labeled Trustworthiness, and is comparable to Berlo's Safety dimension and McCroskey's Character scale. All five of the variables selected by Berlo et al. as most representative of "Safety" had high loadings on this dimension, though in this study there were other variables which had higher loadings. A communicator who scored highly on Cluster 1 was seen to be trustworthy, honest, reputable, good, dependable, safe, etc. The meaning of the cluster has shifted somewhat and has broadened in comparison with that of Berlo et al. A rotation of their Factor I axis through an angle of about 25 degrees would lead to a very similar solution.

Three of the definers of Cluster 1, good-bad, honest-dishonest, and kind-unkind, were also selected by Osgood, Suci, and Tannenbaum⁵ to typify their Evaluative dimension. However, the majority of the definers of Cluster 1 were especially relevant to assessment of com-

⁵ Charles E. Osgood, George J. Suci. and Percy H. Tannenbaum, The Measurement of Meaning, (Urbana, Ill.: University of Illinois Press, 1957).

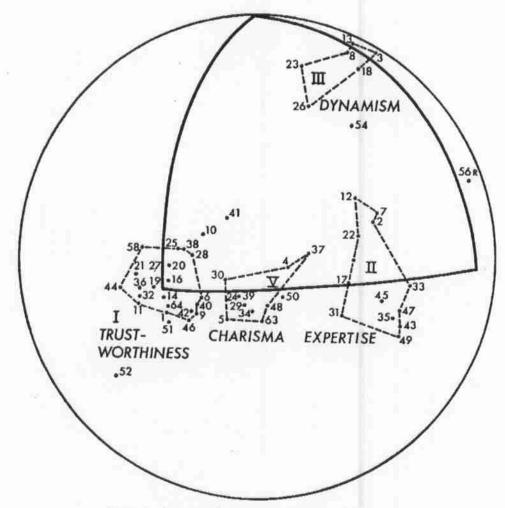


FIGURE 1. SPHERICAL DIAGRAM FOR DIMENSIONS 1, 2, AND 3.

municators, and it was concluded that scores on this cluster would provide information that would not be supplied by evaluative items only.

Cluster 2 was labeled Expertise, and is comparable to Berlo's Qualification and McCroskey's Authoritativeness factors.

Cluster 3 was identical to Berlo's Dynamism factor.

Cluster 4, Co-orientation, does not appear to have a counterpart in any previous dimensional study. A source who scored highly on this cluster created a favorable impression, stood for a group whose interests coincided with those of the rater, represented acceptable values, and was someone to whom the rater would like to listen. These appear to be the aspects of the communicator that Kelman and Eagly considered the "source-oriented" listener would attend to.

The co-orientation dimension was quite highly correlated with Clusters I, 2, and 5. When the communality accounted for by the first three clusters was partialled out, Cluster 4 accounted for only 8.3 per cent of the total communality, whereas it accounted for 59 per cent of the total communality as an oblique cluster when there was no prior

partialling out. tion of the Clusto the domain score was .81. This wa was still far fror dictability. It w. Cluster 4 score of ditional informat

Cluster 5 was 1 is a term which great popularity, imprecisely. Web-into sociology, us. ordinary merit, g

6 Cluster domain score correlations wittion which is based

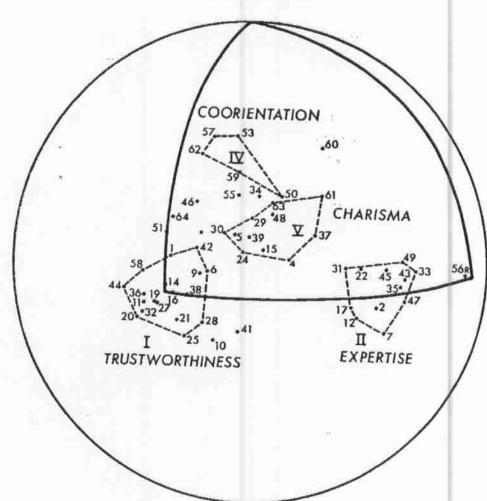


FIGURE 2. SPHERICAL DIAGRAM FOR DIMENSIONS 1, 2, AND 4.

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limension was ith Clusters 1, mmunality acthree clusters er 4 accounted the total comounted for 59 nunality as an e was no prior

partialling out. The multiple correlation of the Cluster 4 domain score6 with the domain scores on Clusters 1 and 2 was .81. This was a high value, but it was still far from indicating total predictability. It was concluded that the Cluster 4 score could provide useful additional information about the source.

Cluster 5 was labeled Charisma. This is a term which has recently acquired great popularity, though it is often used imprecisely. Weber introduced the term into sociology, using it to describe extraordinary merit, grace, genius, or power

6 Cluster domain correlations are raw cluster score correlations with a correction for attenuation which is based upon their reliabilities.

in a leader, which brings about a direct personal allegiance in his followers. It is not suggested that any of the sources used in this study were perceived to be charismatic in this extreme sense, but rather that there is a continuum of perceived charisma which can be operationally defined and measured in terms of this cluster of items. A communicator who is thought of as convincing, reasonable, right, logical, believable, intelligent; whose opinion is respected, whose background is admired, and in whom the reader has confidence, could be said to possess, at least in part, the attributes described by Weber. These attributes imply respect and readiness to be con-

TABLE 1
CLUSTER DEFINERS AND THEIR OBLIQUE FACTOR COEFFICIENTS

Item No.	Item	Oblique factor co-efficient					
	Hem	C,	C ₂	C ₃	C ₄	(
	CLUSTER 1:	TRUSTWOR	THINESS				
19.	Trustworthy-Untrustworthy	88	47	10	67	6	
21.	Honest-Dishonest	87	40	09	60	6	
32.	This speaker is basically honest	86	40	03	62	6	
20.	Reputable—Disreputable	80	47	19	57	6	
14.	Good—Bad	80	45	07	65	6	
44.	This speaker is a scoundrel ()	79	32	01	59	ā	
25. 28.	Undependable—Dependable Responsible—Irresponsible	78	49	24	52	6	
1.	Safe—Unsafe	78 76	52 44	23	57	6	
6.	Just—Unjust	76	54	02 13	68	6	
9.	Fair—Unfair	76	52	07	67 67	7	
38.	The reputation of this speaker is		0.4	.07	07	7	
	low (—)	76	48	23	58	6	
42.	I do not trust the speaker to tell				-	199	
2000	the truth on this topic(-)	76	51	07	72	7	
27.	Sincere—Insincere	75	40	13	55	5	
11.	Kind-Unkind	75	35	00	55	5	
36.	This speaker is not an honorable		766	200			
16.	person (—) Friendly—Unfriendly	70 59	33 34	05	52	5	
	Thermany Charles	200	34	09	46	5	
	Clusti	er 2: Expe	RTISE				
31.	This speaker is a reliable source of		- 11.5	1			
	information on the topic	60	84	25	67	71	
43.	This speaker is an authority on the						
	topic	39	80	24	49	65	
35.	I would consider this speaker to be						
	an expert on the topic	40	79	25	48	6	
7.	Qualified—Unqualified	56	79	35	53	68	
15.	This speaker has very little knowl-				18685	-	
	edge of the factors involved in						
	this topic ()	44	78	29	53	68	
33.	This speaker lacks information on			0555	(64.65).		
	the topic (—)	33	74	34	44	58	
7.	This speaker has had substantial				34.5	30	
	experience with this subject	35	73	26	40	53	
2.	Informed—Uninformed	45	73	45	49	69	
7.	Experienced-Inexperienced	37	68	49		7 7.5kg	
2.	Trained—Untrained	40	68		31	48	
2.	Skilled—Unskilled	43	6.0	46	37	51	
9.		71.0	66	50	36 ₺	52	
	Many people are much more quali- fied on this topic than this speak-						
	er (—)	30	63	1 =	10.3		
			05	17	42 `	48	
	CLUSTER	8: DYNAN	fISM				
3.	Bold-Timid	04	25	77	-03	0.0	
8.	Active—Passive	08	35	70		08	
3.	Aggressive-Meek	-10	24		02	16	
3.	Energetic—Tired	27		70	09	03	
8.	Emphatic—Hesitant		39	68	20	30	
6.	Strong—Weak	00 34	24	66	02	10	
	ALTHUR—VVPAK		44	61			

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CLUSTER 4: CO-ORIENTATION

59.	On the whole, I react favorably to			En .		
57.	a Broup	72	60 .	06	91	1
	whose interests conflict with			3		
62.	mine (—)	63	44	04	84	7
02.	This speaker stands for values to which I am fundamentally op-				10000	
E 9	posed (—)	66	43	01	83	7
53.	This speaker stands for a group of	Torre.			10.00	
50.	which I am a member I should like to listen to this speaker	54	45	05	75	6
	should like to listen to this speaker	51	52	17	61	6
	CLUSTER	в 5: Сна	RISMA			
39.	I have little confidence in this		-			
	speaker (—)	76	65	18	80	00
24.	Reasonable—Unreasonable	71	60	16	70	83
63.	I can trust the judgment of this		-	7.0	(6)97.	.00
er	speaker	69	65	13	81	79
61.	This speaker is convincing	51	65	31	67	76
5. 29.	Right—Wrong	68	56	08	71	76
-	I respect this speaker's opinion on the topic		174-92	12-65		
30.	I admire the speaker's background	65	56	13	71	75
4.	Logical—Illogical	75	58	21	75	74
48.	Under most circumstances I would	58	62	28	.58	72
	not be likely to believe what this					
	speaker says about the topic ()	56	EE.	12		1404
15.	Believable—Unbelievable	55	55 51	14	65	68
37.	I believe that this speaker is quite	3.7	31	19	56	67
	intelligent	47	56	30	52	60
	OTHER VARIABLES APP	EARING O	N Everynne 1	1000 Q		
10.			N FIGURES 1	AND Z		
34.	Stable—unstable	72	51	29	50	1240
***		4.79	77.70			61
	I should consider it desirable to be	(49)		**		61
10.	like this speaker	65	59	13	78	75
10.	like this speaker I believe that this speaker is con-	65	59	755.620	78	75
	like this speaker I believe that this speaker is con- cerned with my well-being	(49)		13 09		55526
	like this speaker I believe that this speaker is con- cerned with my well-being This speaker has low status in our society (—)	65 69	59 47	09	78 68	75 67
н.	like this speaker I believe that this speaker is con- cerned with my well-being This speaker has low status in our society (—)	65	59	755.620	78	75
H. 16.	like this speaker I believe that this speaker is concerned with my well-being This speaker has low status in our society (—) I should like to have this speaker as a personal friend	65 69	59 47 46	09 31	78 68 40	75 67 47
6.	like this speaker I believe that this speaker is concerned with my well-being This speaker has low status in our society (—) I should like to have this speaker as a personal friend	65 69 57	59 47	09	78 68	75 67
11. 16.	like this speaker I believe that this speaker is concerned with my well-being This speaker has low status in our society (—) I should like to have this speaker as a personal friend This speaker would respect the rights of other people	65 69 57	59 47 46	09 31 01	78 68 40 80	75 67 47 70
11. 16.	like this speaker I believe that this speaker is concerned with my well-being This speaker has low status in our society (—) I should like to have this speaker as a personal friend This speaker would respect the rights of other people This speaker has a dynamic per-	65 69 57 74 78	59 47 46 48	09 31	78 68 40	75 67 47
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11. 16. 51. 54. 55. 6	like this speaker I believe that this speaker is concerned with my well-being This speaker has low status in our society (—) I should like to have this speaker as a personal friend This speaker would respect the rights of other people This speaker has a dynamic personality This speaker is a person whose opinions are biased and one-sided (—) This speaker is probably going to obtain personal advancement for his statement (—) I think this speaker would be dull and boring to listen to (—)	65 69 57 74 78 26	59 47 46 48 44 49	09 31 01 —02 60	78 68 40 80 75 35	75 67 47 70 70 43
40. 41. 46. 51. 54. 55.	like this speaker I believe that this speaker is concerned with my well-being This speaker has low status in our society (—) I should like to have this speaker as a personal friend This speaker would respect the rights of other people This speaker has a dynamic personality This speaker is a person whose opinions are biased and one-sided (—) This speaker is probably going to obtain personal advancement for his statement (—) I think this speaker would be dull	65 69 57 74 78 26 51	59 47 46 48 44 49 42 —10	09 31 01 —02 60 06 —23	78 68 40 80 75 35 60	75 67 47 70 70 43 63

Note. Minus signs (-) indicate reflected scoring. Decimals have been omitted.

vinced; or they may indicate that the receiver has already been convinced. In contrast, the adjectives occurring in Cluster I-trustworthy, honest, reputa-

or

C,

-03

-09

-02

C,

ble, good, dependable—seem more commonplace and imply no especial respect for the communicator.

Cluster 5 bears some resemblance to

the first factor in Markham's study, which he labeled "reliable-logical". Two items occurring in Cluster 5 also occurred in Markham's list: logical-illogical, and believable-unbelievable. Berlo, Lemert and Mertz also used these items, and found them to have loadings of about .7 on their Factor 1, and .5 on Factor 2. In the present study, the loadings of the Cluster 5 definers on Clusters 1 and 2 were also in the region of .7 and .5. Figures 1 and 2 show that all the definers of this cluster were reasonably collinear, and Table 2 shows that the cluster score reliability was high (.906).

It is evident that the results of this study corroborate previous research, while drawing attention to the existence of two new clusters of variables which have distinct meanings (Co-orientation and Charisma). These can be measured with high reliability. The results are also valuable because they introduce these concepts from social-psychological and sociological theory into the empirical study of communicator dimensions. The relationships between these concepts, as perceived by respondents, are summarized in Figures 1 and 2. Comparisons of factor coefficients with those ob-

tained in previous studies suggest that the relationships between clusters, and between individual adjective-rating-scales, are quite stable. Only one study, by Applbaum and Anatol, shows unstable factor structures, attributed to different speaking situations. This study is based upon ratings of a single hypothetical individual, an "ideal speaker," in various speaking situations. The large number of factors produced, far more than in any other study, is probably due to the low variance in ratings of an ideal speaker.

A final reason for emphasizing the advantages of an oblique solution became evident from the writer's research on credibility and attitude change, which is reported in his Doctoral dissertation. It was found that Charisma was the communicator variable most strongly related to attitude change, followed by Co-orientation, Expertise, and Trustworthiness, in that order. The effect of Charisma was the only one which reached statistical significance. These results indicate that there can be practical reasons for acquiring information on the five oblique dimensions of perceived credibility.

TABLE 2

Correlations Between Raw Cluster Scores (above diagonal) and Between Cluster Domains (below diagonal); Reliability and Generality of Clusters

Cluster	Correlations					Alpha	Communality	
Citaster	1 2		3 4		5	Reliability	Exhaustion	
Cluster 1		.54	.12	.72	.76	.965	+ 696	
Cluster 2	.56	-	.41	.57	.74	.941	* .636	
Cluster 3	.13	.46		.07	.23	.851	.491	
Cluster 4	.78	.62	.08		.81	.898	.161	
Cluster 5	.82	.81	.26	.90	,01 	.906	.590	

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OR at leas theorists a personal commi much of their a attraction. Not attraction been of interpersonal wide range of c interpersonal cc the primary pur personal attracti search literature munication sugg conclusions: (1) attracted to one will communicat (2) The more other person, tl person has on t munication.8

Two previous: their attention and measuring t terpersonal attra sets of questionn ious aspects of and factor anal reported a five fi factor, labeled "I

Mr. McCroskey is the Department of West Virginia Uni sistant Professor o State University.

¹ E. M. Rogers a cation of Informati Press, 1971).
² J. C. McCroske

² J. C. McCroske Knapp, An Introdu munication (Englev Hall, 1971), Chap.

3 See E. Berschei personal Attraction Wesley, 1969

Wesley, 1969). 4 H. C. Triandi alysis of 'the Behav Attitudes," Journal Psychology, 68 (1961

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