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Coppens, Alan Berchard

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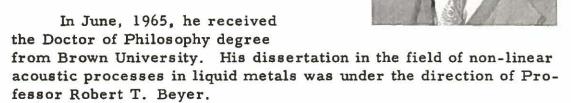
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RESUME OF ALAN BERCHARD COPPENS

Alan Coppens was born in Holly-wood, California, in 1936 and attended Cornell University in Ithaca, New York, where he majored in engineering physics. He received the degree of Bachelor of Engineering Physics in June, 1959.

Graduate study followed at Brown University in Providence, Rhode Island, where he received the degree of Master of Science in June, 1962. His research in the field of physical chemistry was under the direction of Professor Robert T. Beyer.



In August, 1964, he joined the faculty of the Naval Postgraduate School, Monterey, California, where he is teaching in the Department of Physics. His research interest is concerned with the propagation of transients in acoustic waveguides.

Periodically from time to time he has engaged in consulting for civilian industry. He is a member of Sigma Xi.

PUBLICATIONS OF A. B. COPPENS

OPEN	LITERATURE Books; published papers, notes, letters.	
1.	Parameter of Nonlinearity in Fluids, II with R. T. Beyer and others J. Acoust. Soc. Am., 38, 797-804 (1965)	Р
2.	Exact Solutions for the Propagation of Two Simple Acoustic Transients in Waveguides with Perfectly Reflecting Walls J. Acoust. Soc. Am., 40, 331-341 (1966)	Р
3.	Parameter of Nonlinearity in Fluids. III. Values of Sound Velocity in Liquid Metal with R. T. Beyer and J. Ballou J. Acoust. Soc. Am., 41, 1443-1448 (1967)	Р
4.	Finite-Amplitude Standing Waves in Rigid-Walled Tubes with J. V. Sanders J. Acoust. Soc. Am., 43, 516-529 (1968)	P
5.	Theoretical Study of Finite-Amplitude Travel Waves in Rigid- walle Ducts: Behavior for Strengths Precluding Shock Formation. J. Acoust. Soc. Am., 49, 306-318 (1971)	d P
6.	Finite-Amplitude Acoustic Processes in Ducts with J. V. Sanders Conference on Nonlinear Acoustics held at Applied at Austin, 10-11 November 1969. Proc. 101-121 (1971)	I
7.	Sound Off! The Acoustical Environment with R. J. Massman 20th Annual Convention of the California Council of Civil Engineers and Land Surveyors, Monterey, Jan. 27-29, 1972 Proc., 127-138 (1972)	I
8.	Finite Amplitude Standing Waves in Rectangular, Rigid-Walled Cavities With J. V. Sanders 1973 Symposium on Finite-Amplitude Wave Effects in Fluids, Technical Univ. of Denmark, August 20-22, 1973 Programme and Summaries, 1.8+ (1973)	IF
9.	A Semi-Empirical, Nonlinear Wave Equation for Standing Waves in	

Cavities
J. Acoust. Soc. Am., <u>54(1)</u>, 336 (1973)

Publications of E. C. Crittenden, Jr.

13.	Magnetization Hysteresis Loop Tracer for Long Specimens of Extremely Small Cross Section Rev. Sci. Instr., 22, 872-877 (1951)	Р
14.	Evidence of Collapse of Lattice Vacancy Aggregates to Form Dislocation Rings J. Appl. Phys., <u>24</u> , 231-232 (1953)	L
15.	Thin Films of Ferromagnetic Materials Revs. Modern Phys., 25, 310-315 (1953)	P
16.	Cause of Stress in Evaporated Metal Films Proc. Phys. Soc. (London), 67, 497-500 (1954)	P
17.	Effets de la Zone Stratifiec de Brillouin sur les Proprietes Electriques des Films Minces Journal de physique et le radium, <u>17</u> , 220-223 (1956)	Р
18.	Proprietes Ferromagnetiques de Films Minces de Nickel Journal de physique et le radium, 17, 270-273 (1956)	Р
19.	Technique de Production de Films Metalliques Minces par Condensation de Vapeur Journal de physique et le radium, <u>17</u> , 179-183 (1956)	Р
20.	Computer Memory Element Employing Superconducting Persistent Currents • 5th International Conf. on Low Temperature Physics and Chemistry (1957) Univ. of Wisconsin Press, 1958. p. 232-234	IF
21.	Resistance Changes in Phase Transition in Superconducting Thin Films and Fine Wires 5th International Conf. on Low Temperature Physics and Chemistry (1957) Univ. of Wisconsin Press, 1958. p. 234-237	II
22.	Critical Currents in Superconducting Thin Films 1st International Conf. on Structure and Properties of Thin Films (1959)	11
	Wiley, 1959	