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Resume of John N. Cooper, 1972

Cooper, John N.

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RESUME OF JOHN N. COOPER

John Niessink Cooper was born February 4, 1914, in Kalamazoo, Michigan. He attended Kalamazoo College, majoring in physics and minoring in mathematics and chemistry, and received a B.A. Magna Cum Laude in 1935.

From 1935 to 1940 he was graduate assistant in physics at Cornell University. He completed his work for the Ph.D. degree in the summer of 1940 with a thesis in x-rays started under the direction of the late Professor F. K. Richtmyer and completed after Richtmyer's untimely death under Prof. Lyman Parratt.



From 1940 to 1943 he was Instructor in Physics at the University of Southern California. In 1943 he went to the University of Oklahoma as Assistant Professor. From March 1944 to September 1945 he was on war leave as Research Physicist, Radiation Laboratory, University of California, where he worked on the electromagnetic separation of Uranium-235. He returned to Oklahoma for the academic year, 1945-46.

In June 1946, he moved to Ohio State University where he served as Assistant Professor, Associate Professor, and Professor, working as supervisor of the Van de Graaff generator program and doing research in low energy nuclear physics and on the penetration of charged particles in matter.

In the summer of 1947 he served as visiting professor at the University of California at Los Angeles. In each of the years 1951 through 1954 he spent a quarter as a Staff Member at Sandia Corporation, Albuquerque, New Mexico. Since 1955 he has been Consultant at Ramo-Wooldridge Corporation and its successor Space Technology Laboratories, Inc.

In December 1956 he joined the U. S. Naval Postgraduate School as Professor of Physics. His research has been on the superconductive properties of thin films.

He is a Fellow of the American Physical Society, a Senior Member of the Institute of Radio Engineers, and a member of the American Association of Physics Teachers and a member of Sigma Xi.

PUBLICATIONS OF J. N. COOPER

OPEN LITERATURE

Books; published papers, notes, letters

1. Auger Effect in the Relative Intensities of X-Ray Lines
Phys. Rev., 61, 234-242 (1942) P
2. Auger Transitions and the Widths of X-Ray Energy Levels
Phys. Rev., 65, 155-161 (1944) P
3. Laboratory Experiments in Physics
College Book Co., Columbus, Ohio, 1947 B
4. Gamma-Ray Resonances Produced by the Bombardment of Phosphorus
with Protons
Phys. Rev., 80, 107 (1950) L
5. Gamma-Ray Yield of Phosphorus Bombarded with Protons
Phys. Rev., 82, 505-507 (1951) P
6. American Physicists and their Graduate Degrees
Am. J. Phys., 20, 484-487 (1952) P
7. On the Preparation of Magnesium Targets from MgO
Rev. Sci. Instr., 23, 764 (1952) N
8. Undergraduate Origins of American Physicists
Am. J. Phys., 20, 200-202 (1952) P
9. New Physics Building at the Ohio State University
Am. J. Phys., 21, 221-227 (1953) P
10. Gamma-Radiation from Mg²⁶ Under Proton Bombardment
Phys. Rev., 99-101 (1954) P
11. Resonance Capture of Protons by Mg²⁵
Phys. Rev., 93, 1056-1058 (1954) P
12. Stopping Powers of Various Elements for Protons of Energies
from 400 to 1050 kev
Phys. Rev., 93, 413 (1954) P
13. Stopping Cross-Sections of Metals for Protons of Energies
from 400 to 1000 kev
Phys. Rev., 98, 466-470 P
14. Elements of Physics, 6th ed.
McGraw-Hill, 1957 671p. B

Publications of J. N. Cooper (cont.)

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| 15. | Critical Currents in Superconducting Thin Films
First International Conf. on Structure and Properties
of Thin Films, Bolton Landing, New York (1959)
Wiley, 1959. 282-287 p. | IP |
| 16. | Current-Induced Switching of Superconductive Thin Films
Solid-State Electronics, <u>1</u> , 323-334 (1960) | P |
| 17. | The "Persistor" -- a Superconducting Memory Element
Proc. Inst. Radio Eng., <u>48</u> , 1233-1246 (1960) | P |
| 18. | Elements of Physics, 7th ed.
McGraw-Hill, 1964, 717 p. | T |
| 19. | Elements of Physics, Study Guide, 7th ed.
McGraw-Hill, 1965 | T |
| 20. | A Size-Dependent Sign Reversal in the Hall Coefficient
of Indium
with P. Cotti and F. B. Rasmussen
Phys. Letters, <u>19</u> , 560-562 (1965) | P |
| 21. | Introduction to Modern Physics, 6th ed.
with F. K. Richtmyer and E. H. Kennard
McGraw-Hill, 1969 | B |
| 22. | Elements of Physics, 8th ed.
with A. W. Smith
McGraw-Hill, 1972, 676 p. | T |
| 23. | Elements of Physics, Study Guide, 8th ed.
McGraw-Hill, 1972. 141p. | T |