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## Sokolnikoff tensor analysis

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Ivan Stephan Sokolnikoff was a Russian-American mathematician born in 1901 to a wealthy family in Tsarist Russia. He was educated by private tutors and later attended Anders Classical Gymnasium in Kiev. During the Russian Revolution, he was wounded in combat and became a refugee in China, eventually settling in Seattle as an American immigrant. Sokolnikoff earned his electrical engineering degree from the University of Idaho in 1926 and went on to receive his doctorate in mathematics from the University of Wisconsin-Madison in 1930. He joined the mathematics department at the University of Wisconsin-Madison as an instructor in 1927 and was promoted to full professor in 1941. He collaborated with his wife Elizabeth Thatcher Stafford on several significant papers and wrote the classic textbook "Higher Mathematics for Physicists and Engineers". During World War II, Sokolnikoff worked on ship gun fire-control for the National Defense Research Council. He later became a mathematics professor at the University of California, Los Angeles (UCLA) in 1946 and retired as professor emeritus in 1965. Sokolnikoff was awarded two Guggenheim Fellowships and held visiting positions at Brown University twice. His textbook with Elizabeth Stafford was widely used and played a significant role in educating young engineers and physicists. Ivan Sokolnikoff was a renowned mathematician and engineer who made significant contributions to the field of elasticity. His book, "Theory of Elasticity", became a leading textbook on the subject, widely accepted by students and researchers worldwide. Sokolnikoff's graduate work, including his texts on tensor analysis and advanced calculus, were also well-received. Sokolnikoff was an editor for several prestigious journals and publications, including the Quarterly Journal of Applied Mechanics and the John Wiley Series in Applied Mathematics. After his death, he left behind a legacy that included numerous academic papers, books, and collaborations with other notable mathematicians. Some of Sokolnikoff's notable works include "Torsion of regions bounded by circular arcs" (1938) and "Thermal Stresses in Elastic Plates" (1939), both published in the American Mathematical Society's Transactions. He also co-authored several papers on two-dimensional boundary value problems in potential theory with R.D. Specht. Sokolnikoff was a prolific mathematician who wrote several books, including "Higher Mathematics for Engineers and Physicists" and "The Mathematical Theory of Elasticity", both co-authored with Elizabeth Stafford Hirschfelder. He also edited the McGraw Hill series on Advanced Calculus and Tensor Analysis, which were published in 1939 and 1946, respectively. Sokolnikoff's work was recognized by various institutions, including the John Simon Guggenheim Foundation, and he was awarded the title of Professor Emeritus at the University of California, Los Angeles. He was also included in several notable lists of mathematicians, including those published by Calisphere and the American Mathematical Society. According to historical records, renowned mathematicians Ivan S. Sokolnikoff and others published notable reviews in prestigious journals like the Bulletin of the American Mathematical Society and American Journal of Physics. These publications dated back to the mid-20th century, with key references including "Tensor Analysis: Theory and Applications" by Sokolnikoff.