



Cherkesov Gennady Nikolaevich (1937 – 2016)

Gennady Nikolaevich Cherkesov, a leading Russian theorist of reliability of technical systems, passed away.

Gennady Nikolaevich was born on August 9, 1937 in the city of Bezhitsa in Bryansk Region. In 1954 he finished Kromskaya secondary school and entered Leningrad Polytechnic Institute (LPI). In 1962 he graduated from LPI radio engineering faculty with a degree in “Mathematical and computing devices and equipment”, and was hired as an engineer of Experimental design bureau under LPI that was engaged in the development of the systems of control of space vehicles and manned spacecrafts.

In 1964 he entered an LPI PhD program in the department “Information and control systems”. After a successful defense of a thesis he stayed at the Institute as an assistant (1967-1970), and as associate professor (1970-1982). In 1982 he defended a doctoral thesis and ever since he worked as the professor of LPI, and then as the professor of St. Petersburg State Polytechnic University (SPbSPU), holding a professor academic title.

In reliability theory he discovered a new research area – theory of time redundancy. His monograph published in 1974 with the description of the theory foundations, became one of

the first books on time redundancy in the world scientific and research literature, stimulating an intensive development of this area in reliability theory. Applied researches related to the use of theoretical results belong to different spheres of technology (energy systems, heat supply systems, technological systems, nuclear power plants, underwater sound systems, etc.).

Gennady Nikolaevich is an author of more than 200 scientific works, including 162 articles, 17 monographs, 7 study guides, 20 methodological works, 15 algorithms and programs, 2 inventions. In 2005 he published the book “Reliability of hardware and software systems”, which was recommended by the Ministry of education and science as a study guide for the students of “Informatics and computer engineering”. Over the last years Gennady Nikolaevich obtained very important results of reliability analysis of technical systems with spare parts, he started active work on the creation of the theory of system survivability. He also was a head of technical committee TC 119 “Reliability of technical systems”. To the very last moment professor G.N. Cherkesov was committed to the main devotion of his life – reliability.

*Editorial board
of the journal “Dependability”*