

## CURRICULUM VITAE

of Lubomir Varadinov KOLEV

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1. Name: Lubomir Varadinov KOLEV
2. Date and place of birth: 17.10.1940 - Burgas, Bulgaria
3. Higher education: Moscow Power Institute, 1966, Electrical Engineering
4. Scientific degrees and qualification:
  - a) PhD in 1973: Extrapolation of nonstationary random processes and electrical load protection
  - b) Associate Professor in Circuit Theory and Electromagnetic Fields, 1982
  - c) DSc in 1989: On some problems of the analysis of linear and nonlinear electric circuits
  - d) Full Professor since 1995
5. Foreign languages:

English, French, Russian – fluently; German, Italian – satisfactorily.
6. Postgraduate experience/employment

From 1966 to 1968 I was employed as an engineer at the Institute for Technical Cybernetics with the Bulgarian Academy of Sciences in Sofia.

Since December 1968 I have been with the Electrical Engineering Department, Faculty of Automatica, at the Technical University of Sofia where I am currently a Full Professor.

From 1976 to 1978 I was employed as a senior lecturer at the Higher School of Mohammedia (HSM) in Morocco.

From 1990 to 1993 I was employed as an associate professor at the University of Zimbabwe, Harare, Zimbabwe.

During my teaching career I have covered the following types of activity: (in Bulgarian, English and French)

  - laboratory exercises in electric circuits, electromagnetic fields and electromagnetics;
  - seminar exercises in electric circuits and electromagnetic fields;
  - lecture courses in electric circuits, electromagnetic fields, random processes and applications, functional analysis and applications, advanced methods for system analysis and design, and global optimisation.
7. Research and publications

Research:

General theory of linear and nonlinear circuits and systems. Analysis of linear circuits and particularly tolerance analysis of linear electric circuits: dc, ac and transient analysis, robust stability analysis of linear circuits and systems. Global analysis of nonlinear circuits and systems: uniqueness of the steady state, finding all dc and T-periodic solutions of nonlinear circuits, global stability. Global optimisation problems.

Application of interval analysis techniques and homotopy methods to solving the above problems as well as development of computer programs.

I have a total of about 150 publications among which 65 are published in renowned international journals such as (IEEE Trans. on CAS, Int. J. Circ. Th. and Appl., Int. J. Control, Relibale Computing, Automatics and Remote Control (Russian Acad. of Sciences), Electricity, Electromechanics (Russia) etc.

#### 8. Summary of professional qualification:

I have altogether 39 years of academic experience: 34 in Bulgaria, 2 in Marocco and 3 years in Zimbabwe.

My scientific interests are mainly in the field of analysis of linear and nonlinear circuits and systems. Over the last 20 years I have been endeavoring to apply interval analysis techniques in electrical engineering.