



ACADEMICIA
**An International
 Multidisciplinary
 Research Journal**
 (Double Blind Refereed & Peer Reviewed Journal)



DOI: 10.5958/2249-7137.2021.02316.8

COMPUTER-AIDED DESIGN RADIO EQUIPMENT ASSEMBLIES FOR EMC

Sobirova U.Sh* ; Shoyusupova X.X**

^{1,2}Department of Electronics and radio engineering,
 Tashkent University of information Technologies named after Mukhammad al - Khwarazmi,
 Tashkent, UZBEKISTAN
 Email id: Ullibibi@mail.ru

ABSTRACT

Increasing the speed of digital systems and ensuring electromagnetic compatibility in the design of printed circuit boards. One of the main directions in the design of the electromagnetic compatibility of digital systems is the use of CAD. The emergence of new materials, the development of technology mikroperehodov, increased resolution and other technical factors contribute to the production of more advanced e sun dress design. Thus, the developer of the board must decide whether the use of a mathematical method in each case and then make a rational choice of a software environment that allows an analysis based on the selected method.

KEYWORDS: *Printed Circuit Board, Electronic Equipment, Automatic Design, Electromagnetic Compatibility.*

LITERATURE

1. Knyazev, A. D. Designing of radio-electronic and electronic-computing equipment taking into account electromagnetic compatibility [Text] / A. D. Knyazev, L. N. Kechiev, B. V. Petrov. M.: Radio and communication, 1989. 224 p.
2. Chermoshentsev S.F. Information Technology Electromagnetic Compatibility of Electronic Means: Tutorial. - Kazan: KSTU, 2000. - 152 p.
3. Habiger, E. Electromagnetic Compatibility. Fundamentals of its provision in engineering / E. Habiger; per. with him. I.P. Kuzhekin; by ed. B.K. Maximov. - M.: Energoatomizdat, 1995. - 304 pp., Ill.
4. Paul, Clayton R. Introduction to electromagnetic compatibility [Text] / Clayton R. Paul. -2nd ed. Wiley Interscience. 2006

5. The physical basis of the design of radio-electronic means: proc. Method. complex for students of the specialty 1-39 02 01 "Modeling and computer design of RES". In 2 hours. Part 2 / T. V. Molodechkina, V.F. Alekseev, M.O. Molodechkin. - Novopolotsk: PGU, 2013. - 224 with
6. Fomin, A.V. Engineering quality assurance methods for design / A.V. Fomin, O.N. Umrikhin, M.F. Mityushin. - M.: Publishing House of the MAI, 2007. - 276 p.