

LISTA DE LUCRĂRI – Ș.I. dr.ing. Mihai MARICARU

A) Teza de doctorat

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E) Brevete

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F) Contracte

Fa) Contracte de cercetare-dezvoltare-inovare internaționale

[F1] Membru, proiect european FP6, MOBILIS, no. 027003, *Mixed SiP and SoC Integration of Power BAW Filters for Digital Wireless Transmissions*, 2006-2008. (Raport cercetare: M. Maricaru, F. I. Hantila, F. Constantinescu, A. Stanciulescu, A. Buleandra - *FEM Solution of the Coupled Electromechanical Field Problem in Power BAW Resonators*.)

Fb) Contracte de cercetare-dezvoltare-inovare naționale

[F2] Director, contract CNCSIS, tip IDEI_2010 (ctr. nr. 682/2009), *Traietorii în câmp electromagnetic*, 2009-2011, valoare: 391775 RON.

Rezultate stiintifice: Dezvoltarea si implementarea unor noi proceduri eficiente de solutionare a ecuatiilor metodei hibride FEM-BEM si a ecuatiei integrale a curentilor turbionari in structuri cu domenii feromagnetice (luandu-se in considerare si periodicitatea geometrica (de exemplu, cazul masinilor electrice)) multiplu conexe. Dezvoltarea si implementarea unei noi proceduri de determinare a panzelor de curenti indusi si de evaluare evaluare precisa si rapida a efectelor campului electromagnetic in prezenta ecranelor subtiri cu gauri (de exemplu: eficienta ecranarii, forte de natura magnetica, electrica). Este propusa pentru prima data o metoda pentru determinarea traiectoriilor in camp electromagnetic in regimul cvasistationar, in structuri 3D, folosind elemente de muchie, si implementarea ei, cu exemple numerice in domeniul franarii si a levitatiei electromagnetice.

[F3] Director, contract CNCSIS, tip TD, ctr. nr. 27692/14.03.2005 (cod 86, tema 9) si nr. 139GR/02.06.2006 (cod 86, tema 15), *Procedee de mare eficiență pentru calculul matricelor capacităților parțiale și inductivităților, utilizate la modelarea schemelor cu parametri concentrați ale microcircuitelor*, 2005-2006, valoare: 31200 RON.

Rezultate stiintifice: Metode integrale rapide pentru evaluarea cuplajelor electrice și magnetice în microstructuri: algoritmi si programe de calcul al campului electric si magnetic pe baza BEM în regim stationar, evaluarea cuplajelor capacitive si inductive (evaluarea numerică a matricii inductivităților (3D) în domenii multiplu conexe) specifice microstructurilor (proiectarea dispozitivelor microelectronice cu ajutorul calculatorului).

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[F8] Membru, contract CEEX, 300/2006, *Dirijarea formării structurii de solidificare prin intermediul câmpului electromagnetic (SOLID)*, 2006-2008.

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