

IOSUD UNIVERSITATEA DIN PITESTI

SDI

Domeniul de doctorat : Stiinte ingineresti

Domeniul : Ingineria materialelor

TEMATICA

PENTRU ADMITEREA LA DOCTORAT

FORMULAREA GENERALA A A TEMEI :

Cercetari privind influenta oboseii termice asupra unor materiale utilizate in  
industria de automobile

Aliaje feroase; Fonte si oteluri . Compozitii, microstructuri proprietati

Proprietatile fizice ale materialelor.

Transferul termic

Proprietatile mecanice ale materialelor

Tensiuni remanente in materiale metalice

Transformari structurale induse în materiale prin socuri termice si oboseala  
termica

Oboseala termica si fisurarea

Caracterizarea macroscopica, microscopica si la scara locala a materialelor

Tehnici de determinare a tensiunilor remanente in piese

BIBLIOGRAFIE

M Abrudeanu : Stiinta materialelor, Editura Tehnica Bucuresti, 1999

M Abrudeanu: Materiale, Ed Paralela 45, 2013

A Alexandru: Metalurgie fizica 2. Difuzia si autodifuzia. Metalurgia fizica a deformatiilor plastice; Transformari in stare solida ; Materiale metalice tehnice. Ed Tehnopress, 2005

Colin J Smithells: Metals Reference Book, Elsevier, 2013

M Rades : Tensiuni termice , ED Printech, 2010

MS Loveday and TB Gibbons, eds: Harmonisation of Testing Practice for High Temperature Materials, Elsevier Applied Science, Londres/ New York, 1992

J Philibert, A/ Vignes, Y; Brechet, P Combarde , Metallurgie , Masson Paris , 1978

G Summer, VB Liveset eds. Technics of High Temperature Fatigue Testing, Elsevier Applied Science , Londres- New York, 1985 ASTM Annual Book of ASTM Standards, 1987, Vol.3.1

ASTM Annual Book of ASTM Standards, 1987, Vol.3.1

E130 83: Standard practice for conducting creep, creep-rupture and stress-rupture tests of metallic materials p.441-455

E 328-86: Standard methods for stress relaxation tests for materials and structures, P 595-612

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