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Some of the researchers who bought it have been waiting for a while since the website went online about 8 months before publication. After deciding to learn Python's writing, did you find it challenging and time-consuming? Gautam - Well not exactly. About half of the buyers comes from the academic world (professors or students) and the other half industry. I've been working on this project for about a year. All scripts in the book have been thoroughly tested and validated. As part of your search, you may need to perform an optimization when you change some parameters of this model, such as dimensions, loads, materials, and so on. AA name the companies themselves, but extend the engineering/technology spectrum from aerospace and mechanical engineering to oil and computer hardware. You can then edit the variable values and run the script, which will recreate model along these new parameters. Each time you change the parameters, you can recreate the model, making decisions (according to your schedule) about how other parameters will change. 3. I was surprised to receive an order from a maker of glasses, A I knew these guys were making FEA advanced with Abaqus, let alone writing Python scripts. A So I taught myself to write using Abaqus documentation, the Python.org website, the playback files, and a lot of trial and error. Gautam A VAA It A @ AAA It is a bit difficult to determine exactly who the target audience is, besides the fact that they are beginners to scripting in Abaqus. So I guess whoever has to program an Abaqus simulation with a script becomes the target audience. Rene A @ AA So the attention A on optimization? Rene A @ AA Where can you buy this book? I realized I could automate the process with a Python script. For example, if you're doing It is necessary to know how to do it in aboqs/cae. 4.Ge this was a secondary project from the beginning, consumed most of my free time and weekend. week. And testing these panels in the real world would have been too expensive, so the simulations were the way to follow. Are you using Abaqus for FEM simulations and want to increase your efficiency? The book help you translate your current model into a script and control it programmatically. That's where the book comes into play. Parameterize your "a" model or simply assign something to the variables. Depending on the number of simulations that are expected to perform, this can become a process that takes a long time. Perhaps some of your dimensions can be assigned to variables, or some of your loads and contour conditions. I had to change the dimensions and properties of the materials thousands of times, and this involved reassigning loads, contour conditions, mesh, etc. And every time a new model is created in the GUI (ABAQUS/CAE), you can perform the script instead of manually recreating the properties of the material and section. I also put on a small website to see if people were interested, since it was about to be a rather large commitment. Do you want to automate many repetitive activities that must be performed daily? It aims to help you start quickly, understand shades and develop a problem solving mentality. The process took a long time, and since I was not working full time on the project it took a few months to do what should have been a couple of weeks. I also continued to overcome the deadlines I had set for myself, and the release date was constantly postponed from April to September 2011. The documentation of Abaqus with the manual for the user and the reference manual for scripting He has already all the theory that a researcher would need, but he is not aimed at beginners, and creating a functioning script within a reasonable period of time is Real challenge for those who have just started. We didn't know anyone who had used the Abaqus scripting interface and I was unable to find any online tutorials. After the A completed (and published results) I started thinking about writing a beginner's manual and publishing it online so that other students could use it. Rene - What was the biggest challenge? The book won't be an Abaqus tutorial, so you need to know how to use the software itself (and if you don't, of course there are videos on my site and on the SLC tutorial series). You found yourself demotivated and lost because of the shortage relevant learning resources or step-by-step tutorials? This A was actually My first foray into Abaqus, not just Python scripting. This A is great for any kind of optimization study. So it wasn't very organized in the beginning. The FEM simulation using Abaqus and Python Scripting are different topics and it is difficult to include all the details in a single book. Most people were experiencing the same frustrating experiences with the scripts I once did and were interested in a book on this subject. Gautam - the book A aimed at Abaqus users who wish to write Python scripts to complement their FEA studies. I went ahead and emailed Simulia at this point just some kind of water test and I talked to you. You can also use it to do something as trivial as formatting your whole story plot in a certain way and controllerA small details such as axes titles, line styles, etc. . There are many Abaqus users around the world in various fields and in academia. I have received many emails from researchers in both academia and business. 2. If all FEA models have some things in common, such as material and property of the section, A you can write a script to define materials and sections. You will work in a few days and you will switch from writing your first Python line of code to configuring entire models in Abaqus using the interface of nu nu us odnarval ovats ,hcoT aigroeG ni ossorp oitratstrevinu etneduts emoc af inna inuclA - matuaG .nohtyP etrap ni itteffe ni are lairout elauanam oloccip li erevircS. ozzem ni epa'd odin a arutturts anu noc ortsaip eud ni onavotsisnoc ehc Jarutamra'lled arutaccalp(enoisolpse'lla itnetsiser ilennap ied elairetam led Ateirporp elled e airtemoeg alled enoizazzimto'l avadraugir oiduts ol .ottut li eraredisnocir otutop ierva otubirtnoc orol li aznes ,etnematsenO .suqabA rep nohtyP id gnitpircs olled elaiiznetop orev li eranetacs rep itasu eresse onossop eedi el o llat otnaug ni tpircs ilg ,idniuQ .suqabA da nohtyP id gnitpircs olled odnom len ivoun onos ehc itaerul itneduts e itnaipicnirP rep elaeid'l "A orbil otseuQ .imelborp ied avitteffe enoizulosir allus eigrene eut el erazzilacof id onnarettemrep it e MEF inoizalumis ellen ilanab irrorre ilg errudir a Aretuia it ehc ,elatemn ordaug out led etrap onnaretnevid etucisonoc ocop ehincet etseuq id enucla ,enimret ognul a ,ertlonI .avissecuc enoisrev allen etattart onnarrev enoizarobale-tsoip id etseihcir elled enoizamatua'l ,BDO.* elif ia ossecca'l emoc ilgatted iroiretU ?orbil nu ni otamrofsart "A is otseuq e - eneR ?tegrat ocilbbup li "A ihc - eneR .orez ad etnemaretni olraercir o Jacifidom aloccip anu id osac ni(olledom out li eracifidom itservoD .avititepir Ativitta id opit isaislauq erugiесе rep tpircs onu erazzilitu elibissop "A ,etnemasicorp 'Aip .itseuq rep itatlusir i alubat idniuq ,tupni id irtemarap/ilibairav id ilibairav tes rep isilana'l eugese ehc olcic nu eraerc elibissop A .otaugeda orbil nu ni olramrofsart a erassap id osiced oh ,otunetsos eteva izzagar iov ehc otad E ?aronif kcabdeef ehclauq otivecir iah - eneR .ossecorp otseuq erazzitamotua elibissop "A tpircs onu odnevircS .icitsenod ilamina rep ottegorp leuq emoc otazini "A etnemlatnemadnoF - matuaG .ipmese lged otnemidnerppa'llus "A orbil li osrevartta enoiznetta'l ©AhcioP ovittricsed aznatsabba "A ~a oipmese'l noc arapmla ~a eA suqabA rof stpircs nohtyPA ~a eA . olotit li olraf rep tpircs onu asu ,ovititepir "A eS .suqabA us etnemetof avasab is ehc ottegorP learning even since my attention had previously been on how to do the work from deadlines, rather than fully understand how everything worked. Gautam - The book has been released for about two months and the feedback was fantastic. What what Have here is a single FEA model. The steps common to all EF analyses are explained in this book. To find out what gives you the best results. Practice one chapter a day with this book and turbo-charge your abaqus skills in just 10 days. The original publication can be viewed on the Simulia Learning Community at 6799 Rene Spranger, January 15, 2012 I am very excited to announce a new book about Abaqus Scripting! Gautam Puri contacted me two years ago at Georgia Tech to be interested in writing a book. He told me that he learned to write with Abaqus and found little information on the subject. I was so impressed with him that I hired him as an intern last year. I strongly advise you to use his book for your research. Gautam is graduating this spring and will seek employment (suggestion). A lot of time has been wasted debugging scripts and making things work. Gautam - Currently the book is sold on the website www.abaquspython.com 1. Python scripting doesn't apply to a particular field or sector, but it can be used to program anything you can do in Abaqus/CAE. Can you elaborate? Rene - can you briefly describe what this book is about? I also made some Abaqus tutorial videos that I posted on YouTube and these have grown quite popular. Gautam - Generally, when you run a study in Abaqus, you write an input file into a text editor that sets your template or use the graphical user interface (ABAQUS/CAE) to create a template (and Abaqus creates the input file in the background when you do the job). The templates took more than half an hour to create each time, so doing it manually a few thousand times was out of the question. Gautam - it was time commitment. By Gautam Puri Here is the transcript of the interview based Gautam web with Rene Spranger, Business Development Manager (Academics), Simulia Americas, January 2012. Rene - what is your experience with scripting? This unique book is is .snoitanalpxe .snoitanalpxe pets-yb-pets dna stnemmoc deliated htiw seirogetac tnereffid morf smelborp 9 rof stpircs nohtyp lluf gnidivorp yb snrecnoc eseht sserdda ot tpmetta erechis

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