

## Lab 2: Cadence Tutorial on Layout and DRC/LVS/PEX

### Kit Documentation

The IBM design kits include many reference documents available in PDF format. You can access the most relevant of these from the cadence (virtuoso) CTW window. Select IBM\_PDK > Document > Design Manual. Under 'Technology' select cmr03d and click ok. A PDF document should open called the Design Rule Manual (DRM). If this does not work, the DRM can be accessed directly by typing the following in a terminal window, where % represents the terminal window prompt (i.e. type the text after the %).

```
% screenread ~/nrs413/.../IBM_PDK/cmr03d/V1.8.0.DRM/doc/cmr03d.design_manual.pdf
```

This document contains all of the electrical properties of the devices in the process. It also contains layout design rules and other information about the process. You can find a cross section of the process on page 28.

### Introduction

This tutorial describes how to generate a layout view in the Cadence Virtuoso Layout Editor, how to perform layout verification in Caliber, and how to re-simulate your design with extracted parasitics in Spectre. In the first section, you will generate a layout for a simple CMOS inverter. In the second, you will create a buffer using the inverter cell you have created.

When doing layout, a techfile must be attached to the library. This defines layers, parameterized cells (pcells) and other layout-related technology information. This should have been set in Lab 1, but we will double check the techfile. To do this, start virtuoso in your cadence directory.

```
% cd ~/nrs413/  
% module load /afs/nimick.edu/class/ece/modules/eecs413/11.5  
% virtuoso &
```

Open the Library Manager from the CTW by browsing to

Tools > Library Manager

Right click on the tutorial library that was created in tutorial session 1 and choose *Properties*. The techLibname field should read cmr03d. If it does not, enter cmr03d in the text box for techLibname and click on OK. You have now attached the techfile. In the list of cells, click on *cmos\_inverter* (or the name you chose for your inverter in Lab 1), then choose File > New > Cell View.

# Cadence Lab Manual

**Alice Lorraine Smith**



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Microbiology, Laboratory Manual and Workbook Alice Lorraine Smith, 1981

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**Principles of Microbiology** Alice Lorraine Smith,1977      Forthcoming Books Rose Arny,2001      Proceedings of the Twenty-seventh SIGCSE Technical Symposium on Computer Science Education John Impagliazzo,Association for Computing Machinery. Special Interest Group on Computer Science Education,1996      **Practical Automation for the Clinical Laboratory** Wilma L. White,Marilyn M. Erickson,Sue Cassell Stevens,1972      **The Reference Catalogue of Current Literature** ,      **Subject Guide to Books in Print** ,1991

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web au bord de la seine et sur ses nombreuses îles promenades à pied en canoë visites restaurants et cafés au bord de l eau  
parcs et jardins vous aimez la seine et elle vous le rend bien découvrez des idées d activités autour du fleuve mythique qui  
donne son nom à notre département

les hauts de seine à pied 29 promenades et randonnées fnac - Aug 26 2022

web des milliers de livres avec la livraison chez vous en 1 jour ou en magasin avec 5 de réduction les hauts de seine à pied 29  
promenades et randonnées topo guide pr broché collectif achat livre fnac

**rando et vélo dans les hauts de seine** - May 03 2023

web que vous soyez amoureux de la nature ou citadin invétéré destination hauts de seine a regroupé pour vous un grand  
nombre de balades à faire à pied ou en vélo le long de la seine dans le dédale de la défense ou dans les

hauts de seine les meilleurs itinéraires de randonnée alltrails - Aug 06 2023

web hauts de seine prêt e à découvrir les meilleurs itinéraires de randonnée de vtt d itinérance ou d autres activités de plein  
air alltrails propose 73 sentiers de randonnée circuits vtt parcours en itinérance et bien plus encore

**20 randonnées à faire 92 hauts de seine visorando** - Jul 05 2023

web visorandonneur 7 23 km 90 m 88 m 2h20 facile départ à sceaux hauts de seine 92 hauts de seine À la découverte du  
nouvel urbanisme où proximité et diversité sont à l honneur et dont la commune du plessis robinson est un exemple typique

**hauts de seine les 10 meilleurs parcours de trail en 2023** - Nov 28 2022

web explorer les randonnées les plus populaires pour la course à pied en hauts de seine avec des cartes de sentiers et des  
indications routières préparées à la main ainsi que des avis détaillés et des photos de randonneurs de campeurs et

*les balades nature dans les hauts de seine* - Oct 08 2023

web 10 balades à faire dans l ouest parisien préparez votre retour aux sources fuir la circulation et le bitume parisien pour  
profiter des premiers rayons de soleil quoi de plus agréable qu une balade à pied entre campagne et ville à seulement  
quelques minutes de paris se

**istanbul visite à pied des hauts lieux du continent asiatique** - Feb 17 2022



web kaş canakkale ankara découvrez la face asiatique d istanbul lors de cette visite guidée à pied découvrez des sites hors des sentiers battus comme la promenade côtière d uskudar et le marché local le pont du bosphore et la place mihrimah sultan

villes parcs et forêts des hauts de seine à pied topoguide - Sep 07 2023

web les hauts de seine à découvrir à pied les villes les parcs et la seine en partenariat avec le département des hauts de seine la ffrandonnée a lancé un topoguide dédié à la randonnée dans les hauts de seine marche ou randonnée à la journée vous aimez marcher ou randonner à la journée ou à la demi journée

*villes parcs et forêts des hauts de seine à pied* - Mar 01 2023

web cette 2ème édition du topoguide villes parcs et forêts des hauts de seine à pied redonne une grande bouffée d air frais aux 25 promenades randonnées pour partir à la découverte des parcs des forêts du riche patrimoine artistique et des endroits méconnus des hauts de seine