

Manifold Learning to Enable Equation-Free Modeling of Chemical Engineering Systems

Proposed by David Sroczynski

under the supervision of

Professor Yannis Kevrekidis

11/04/2015

Contents

1	Introduction	3
---	--------------	---

1 Introduction

The intro! [2] [1]

References

- [1] E. Chiavazzo, C. Gear, C. Dsilva, N. Rabin, and I. Kevrekidis. Reduced Models in Chemical Kinetics via Nonlinear Data-Mining. *Processes*, 2(1):112–140, Jan. 2014.
- [2] B. Lim, C. Dsilva, T. Levario, H. Lu, T. Schüpbach, I. Kevrekidis, and S. Shvartsman. Dynamics of Inductive ERK Signaling in the *Drosophila* Embryo. *Current Biology*, pages 1–7, 2015.