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could ensue your

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listings. This is just
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not recommend that
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Comprehending as
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linear extra will allow
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door to, the
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Linearization First
and Zero Order

Kinetics What is M

ULTI-

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MODEL? What does
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MODEL mean?

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~~Linear: Multi~~

~~Compartment Model~~

PML School: Target-

mediated Drug

Disposition

Introduction to

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Modeling

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Models

If $h_2 = 0$, but

compartment 2 can

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also be perturbed,
the model is: (i)
non-identifiable if
 $U_1(t)$ and $U_2(t)$ are
both impulses; (ii)
globally identifiable
(provided The
identifiability of
linear
compartmental
models h_i is known)
if $U_1(t)$ is an
infusion and $u_2(t)$
an impulse; (H_i)

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globally identifiable
(even if h_i is
unknown) if $U_i(t)$ is
an impulse and $u_z(t)$
an infusion.

The Identifiability
of Linear
Compartmental
Models ...

- Starting with a
model with: – I/O in
first compartment
– n leaks – Strongly

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connected graph G

– $\dim \text{im } c = m+1$ •

Remove $n-1$ leaks

Local identifiability

• Ex: 1 2 3 4 2 N.

Meshkat, S.

Sullivant, and M.

Eisenberg,

Identifiability

results for several

classes of linear

compartment

models, In

preparation.

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Identifiability of
linear
compartmental
models

Abstract: This work addresses the problem of identifiability, that is, the question of whether parameters can be recovered from data, for linear compartment

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Linear: Using standard differential algebra techniques, the question of whether a given model is generically locally identifiable is equivalent to asking whether the Jacobian matrix of a certain coefficient map, arising from input-output equations, is

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[1709.10013]

Identifiability of
linear compartment
models ...

idence times, and
so on) based at
least in part on
linear compartment
model theory [13,
18]. A mathematical
model is identi able

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if its parameters
can be recovered
from data. Using
standard differential
algebra techniques,
the question of
whether a given
linear compartment
model is
(generically locally)
identifiable is
equivalent to asking
whether the
Jacobian matrix of a

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Linear coefficient
map (arising from
certain input-output
equations) is
generically full
rank.

IDENTIFIABILITY
OF LINEAR
COMPARTMENT
MODELS: THE
SINGULAR ...

Input-output
equations I Setup: a

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linear compartment model. Let $m =$ number of compartments. An input-output equation is an equation that holds along any solution of the ODEs, involving only input variables u_i and output variables y_i (and parameters k_{ij}), and their

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Example, continued:

$$\begin{aligned} & 1 \ 2 \ k \ 21 \ k \ 12 \ \text{in } k \\ & 01 \ k \ 02 \ y(2) \ 1 \ + \ (k \\ & 01 \ + \ k \ 02 \ + \ k \ 12 \ + \\ & k \ 21) y \ 0 \ 1 \ + \ (k \\ & 01k \ 12 \ + \ k \ 01k \ 02 \\ & + \ k \end{aligned}$$

Identifiability of
linear compartment
models: the singular
...

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Identifiability of
Linear
Compartmental
Models: The Effect
of Moving Inputs,
Outputs, and Leaks

| A mathematical
model is identifiable
if its parameters
can be recovered
from data.

Identifiability of
Linear

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This work addresses the problem of identifiability, that is, the question of whether parameters can be recovered from data, for linear compartment models. Using standard differential

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linear algebra techniques, the question of whether a given model is generically locally identifiable is equivalent to asking whether the Jacobian matrix of a certain coefficient map, arising from input-output equations, is generically full rank.

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2 N. Meshkat, S.
Sullivant, and M.
Eisenberg,
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results for several
classes of linear
compartment
models, In
preparation.

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Example:

Manganese Model 3

3 P. K. Douglas, M.

S. Cohen, and J. J.

DiStefano III,

Chronic exposure to

Mn inhalation may

have lasting effects:

A physiologically-

based toxico-kinetic

model in rats,

Toxicology and

Environmental

Chemistry 92 (2)

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(2010) 279-299.

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Identifiability of
affine linear
parameter-varying
models Structural
identifiability and
indistinguishability
of certain two-
compartment

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Linear

incorporating
nonlinear efflux
from the peripheral
compartment

Identifiability and
indistinguishability
of linear ...

In this work, we
study linear
compartment
models, which are a
class of biological

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Linear compartment models commonly used in pharmacokinetics, physiology, and ecology. In past work, we used commutative algebra and graph theory to identify a class of linear compartment models that we call identifiable cycle models, which are

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linear
unidentifiable but
have the simplest
possible identifiable
functions (so-called
monomial cycles).

Identifiability
Results for Several
Classes of Linear ...
Structural
identifiability
concerns finding
which unknown
parameters of a

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Linear model can be quantified from given input – output data. Many linear ODE models, used in systems biology and pharmacokinetics, are unidentifiable, which means that parameters can take on an infinite number of values and yet yield the

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Linear input – output
data.

Identifiable
reparametrizations
of linear
compartment
models

STRUCTURAL
IDENTIFIABILITY
FOR
COMPARTMENTA
L MODELS

observed. Indeed

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linear may be
recognised as the
gen-eral "moment"
invariants of a
linear system: trace
 $(A) = \text{const}$
 $[(AA_{ii}A_{jj} - A_{ij}A_{ji})$
 $= \text{const} \quad (20) \det. A$
 $I = \text{const}$ The
fourth invariant is
specific to the
compartment
observed and may
heuristically be

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derived directly
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Structural
Models The
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models: the singular
locus | This work
addresses the
problem of
identifiability, that

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Linear, the question of whether parameters can be recovered ...

Compartment Models The

Singular Identifiability of linear compartment models: the singular ...

Structural identifiability concerns finding which unknown parameters of a model can be

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linear compartment
models. The
singular
quantified from
given input-output
data. Many linear
ODE models, used
in systems biology
and
pharmacokinetics,...

Identifiable
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Identifiability

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concerns finding which unknown parameters of a model can be quantified from given input-output data. Many linear ODE models, used in systems biology and pharmacokinetics, are unidentifiable, which means that parameters can

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take on an infinite number of values and yet yield the same input-output data.

Identifiable
reparametrizations
of linear
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models
This chapter
describes a method
[W1, W6 — W9] for

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testing linear time-
invariant models for
s.g. identifiability,
as a result of a
study on
compartmental
models. When
dealing with such
models, one can...

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4.2 Compartmental

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Models 4.3 Two-
Compartment
System 4.4 Three-
Compartment
Mammillary System
4.5 Discussion 5
Numerical
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this Really a New
Problem? 6
Concluding
Remarks
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