



# Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics)

By Claude Mitschi, David Sauzin

Download now

Read Online ➔

## Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) By Claude Mitschi, David Sauzin

Providing an elementary introduction to analytic continuation and monodromy, the first part of this volume applies these notions to the local and global study of complex linear differential equations, their formal solutions at singular points, their monodromy and their differential Galois groups. The Riemann-Hilbert problem is discussed from Bolibrukh's point of view.

The second part expounds 1-summability and Ecalle's theory of resurgence under fairly general conditions. It contains numerous examples and presents an analysis of the singularities in the Borel plane via "alien calculus", which provides a full description of the Stokes phenomenon for linear or non-linear differential or difference equations.

The first of a series of three, entitled *Divergent Series, Summability and Resurgence*, this volume is aimed at graduate students, mathematicians and theoretical physicists interested in geometric, algebraic or local analytic properties of dynamical systems. It includes useful exercises with solutions. The prerequisites are a working knowledge of elementary complex analysis and differential algebra.

↓ [Download Divergent Series, Summability and Resurgence I: Mo ...pdf](#)

📖 [Read Online Divergent Series, Summability and Resurgence I: ...pdf](#)

# Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics)

By Claude Mitschi, David Sauzin

## Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) By Claude Mitschi, David Sauzin

Providing an elementary introduction to analytic continuation and monodromy, the first part of this volume applies these notions to the local and global study of complex linear differential equations, their formal solutions at singular points, their monodromy and their differential Galois groups. The Riemann-Hilbert problem is discussed from Bolibrukh's point of view.

The second part expounds 1-summability and Ecalle's theory of resurgence under fairly general conditions. It contains numerous examples and presents an analysis of the singularities in the Borel plane via "alien calculus", which provides a full description of the Stokes phenomenon for linear or non-linear differential or difference equations.

The first of a series of three, entitled *Divergent Series, Summability and Resurgence*, this volume is aimed at graduate students, mathematicians and theoretical physicists interested in geometric, algebraic or local analytic properties of dynamical systems. It includes useful exercises with solutions. The prerequisites are a working knowledge of elementary complex analysis and differential algebra.

## Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) By Claude Mitschi, David Sauzin Bibliography

- Rank: #4856804 in Books
- Published on: 2016-12-11
- Released on: 2016-08-28
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .76" w x 6.10" l, .0 pounds
- Binding: Paperback
- 298 pages

 [Download Divergent Series, Summability and Resurgence I: Mo ...pdf](#)

 [Read Online Divergent Series, Summability and Resurgence I: ...pdf](#)

## **Download and Read Free Online Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) By Claude Mitschi, David Sauzin**

---

### **Editorial Review**

#### **Review**

“The book is the first of three independent books whose aim is to describe methods of the analytic theory of differential equations such as monodromy, analytic continuation, resurgence, summability etc. It is aimed at graduate students, mathematicians and theoretical physicists.” (Vladimir P. Kostov, zbMATH 1355.34003, 2017)

#### **From the Back Cover**

Providing an elementary introduction to analytic continuation and monodromy, the first part of this volume applies these notions to the local and global study of complex linear differential equations, their formal solutions at singular points, their monodromy and their differential Galois groups. The Riemann-Hilbert problem is discussed from Bolibrukh's point of view.

The second part expounds 1-summability and Ecalle's theory of resurgence under fairly general conditions. It contains numerous examples and presents an analysis of the singularities in the Borel plane via “alien calculus”, which provides a full description of the Stokes phenomenon for linear or non-linear differential or difference equations.

The first of a series of three, entitled Divergent Series, Summability and Resurgence, this volume is aimed at graduate students, mathematicians and theoretical physicists interested in geometric, algebraic or local analytic properties of dynamical systems. It includes useful exercises with solutions. The prerequisites are a working knowledge of elementary complex analysis and differential algebra.

### **Users Review**

#### **From reader reviews:**

##### **Lisa Knight:**

Do you have favorite book? In case you have, what is your favorite's book? Publication is very important thing for us to find out everything in the world. Each book has different aim as well as goal; it means that book has different type. Some people experience enjoy to spend their the perfect time to read a book. They can be reading whatever they consider because their hobby is usually reading a book. Why not the person who don't like reading through a book? Sometime, individual feel need book when they found difficult problem or maybe exercise. Well, probably you'll have this Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics).

##### **Cheri Turner:**

This Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) is great book for you because the content and that is full of information for you who always deal with world and also have to make decision every minute. This book reveal it info accurately using great

organize word or we can point out no rambling sentences included. So if you are read the idea hurriedly you can have whole information in it. Doesn't mean it only offers you straight forward sentences but tricky core information with lovely delivering sentences. Having Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) in your hand like obtaining the world in your arm, details in it is not ridiculous one particular. We can say that no reserve that offer you world throughout ten or fifteen minute right but this publication already do that. So , this can be good reading book. Hello Mr. and Mrs. active do you still doubt that will?

#### **William Looney:**

Many people spending their moment by playing outside having friends, fun activity using family or just watching TV all day long. You can have new activity to enjoy your whole day by reading through a book. Ugh, do you consider reading a book can really hard because you have to accept the book everywhere? It ok you can have the e-book, having everywhere you want in your Mobile phone. Like Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) which is finding the e-book version. So , why not try out this book? Let's view.

#### **George Hyler:**

Is it an individual who having spare time in that case spend it whole day through watching television programs or just laying on the bed? Do you need something totally new? This Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) can be the response, oh how comes? A book you know. You are and so out of date, spending your extra time by reading in this fresh era is common not a geek activity. So what these books have than the others?

**Download and Read Online Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) By Claude Mitschi, David Sauzin #MP98TSAGV24**

# **Read Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) By Claude Mitschi, David Sauzin for online ebook**

Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) By Claude Mitschi, David Sauzin Free PDF download, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) By Claude Mitschi, David Sauzin books to read online.

## **Online Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) By Claude Mitschi, David Sauzin ebook PDF download**

**Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) By Claude Mitschi, David Sauzin Doc**

Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) By Claude Mitschi, David Sauzin Mobipocket

Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) By Claude Mitschi, David Sauzin EPub

**MP98TSAGV24: Divergent Series, Summability and Resurgence I: Monodromy and Resurgence (Lecture Notes in Mathematics) By Claude Mitschi, David Sauzin**