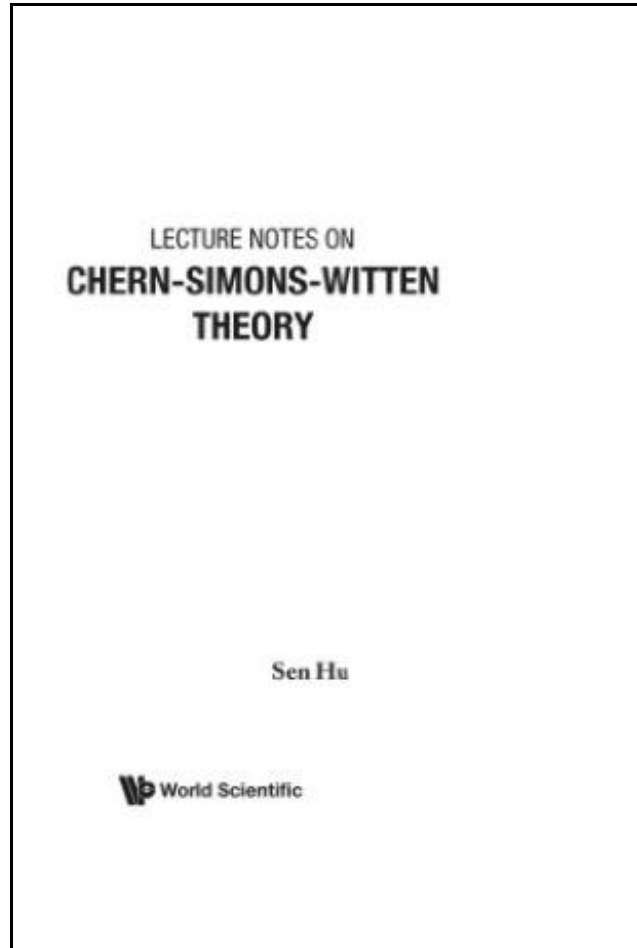


Lecture Notes On Chern-Simons-Witten Theory



Filesize: 8.52 MB

Reviews

This pdf is fantastic. It really is basic but shocks inside the 50 % in the pdf. I realized this pdf from my i and dad encouraged this pdf to discover.

(Hunter Witting)

LECTURE NOTES ON CHERN-SIMONS-WITTEN THEORY



To read **Lecture Notes On Chern-Simons-Witten Theory** PDF, remember to follow the link under and save the document or have accessibility to additional information that are relevant to LECTURE NOTES ON CHERN-SIMONS-WITTEN THEORY ebook.

Wspc. Paperback. Book Condition: New. Paperback. 212 pages. Dimensions: 8.5in. x 6.0in. x 0.3in. This invaluable monograph has arisen in part from E Witten's lectures on topological quantum field theory in the spring of 1989 at Princeton University. At that time Witten unified several important mathematical works in terms of quantum field theory, most notably the Donaldson polynomial, the Gromov-Floer homology and the Jones polynomials. In his lectures, among other things, Witten explained his intrinsic three-dimensional construction of Jones polynomials via Chern-Simons gauge theory. He provided both a rigorous proof of the geometric quantization of the Chern-Simons action and a very illuminating view as to how the quantization arises from quantization of the space of connections. He constructed a projective flat connection for the Hilbert space bundle over the space of complex structures, which becomes the Knizhnik-Zamolodchikov equations in a special case. His construction leads to many beautiful applications, such as the derivation of the skein relation and the surgery formula for knot invariant, a proof of Verlinde's formula, and the establishment of a connection with conformal field theory. In this book, Sen Hu has added material to provide some of the details left out of Witten's lectures and to update some new developments. In Chapter 4 he presents a construction of knot invariant via representation of mapping class groups based on the work of Moore-Seiberg and Kohno. In Chapter 6 he offers an approach to constructing knot invariant from string theory and topological sigma models proposed by Witten and Vafa. The localization principle is a powerful tool to build mathematical foundations for such cohomological quantum field theories. In addition, some highly relevant material by S S Chern and E Witten has been included as appendices for the convenience of readers: (1) Complex Manifold without Potential Theory by S S Chern,...



[Read Lecture Notes On Chern-Simons-Witten Theory Online](#)



[Download PDF Lecture Notes On Chern-Simons-Witten Theory](#)



[Download ePub Lecture Notes On Chern-Simons-Witten Theory](#)

Relevant Kindle Books

**[PDF] The Mystery on the Oregon Trail Real Kids, Real Places**

Click the hyperlink under to download "The Mystery on the Oregon Trail Real Kids, Real Places" PDF document.

[Save eBook »](#)

**[PDF] The Mystery of the Onion Domes Russia Around the World in 80 Mysteries**

Click the hyperlink under to download "The Mystery of the Onion Domes Russia Around the World in 80 Mysteries" PDF document.

[Save eBook »](#)

**[PDF] The Day I Forgot to Pray**

Click the hyperlink under to download "The Day I Forgot to Pray" PDF document.

[Save eBook »](#)

**[PDF] Lans Plant Readers Clubhouse Level 1**

Click the hyperlink under to download "Lans Plant Readers Clubhouse Level 1" PDF document.

[Save eBook »](#)

**[PDF] DK Readers Animal Hospital Level 2 Beginning to Read Alone**

Click the hyperlink under to download "DK Readers Animal Hospital Level 2 Beginning to Read Alone" PDF document.

[Save eBook »](#)

**[PDF] DK Readers Day at Greenhill Farm Level 1 Beginning to Read**

Click the hyperlink under to download "DK Readers Day at Greenhill Farm Level 1 Beginning to Read" PDF document.

[Save eBook »](#)



[PDF] Tiger Tales DK Readers, Level 3 Reading Alone

Follow the link below to download "Tiger Tales DK Readers, Level 3 Reading Alone" PDF file.

[Download ePub »](#)



[PDF] Aeschylus

Follow the link below to download "Aeschylus" PDF file.

[Download ePub »](#)



[PDF] DK Readers Beastly Tales Level 3 Reading Alone

Follow the link below to download "DK Readers Beastly Tales Level 3 Reading Alone" PDF file.

[Download ePub »](#)



[PDF] Good Night, Zombie Scary Tales

Follow the link below to download "Good Night, Zombie Scary Tales" PDF file.

[Download ePub »](#)



[PDF] Readers Bermuda Triangle

Follow the link below to download "Readers Bermuda Triangle" PDF file.

[Download ePub »](#)



[PDF] At-Home Tutor Reading, Prekindergarten

Follow the link below to download "At-Home Tutor Reading, Prekindergarten" PDF file.

[Download ePub »](#)