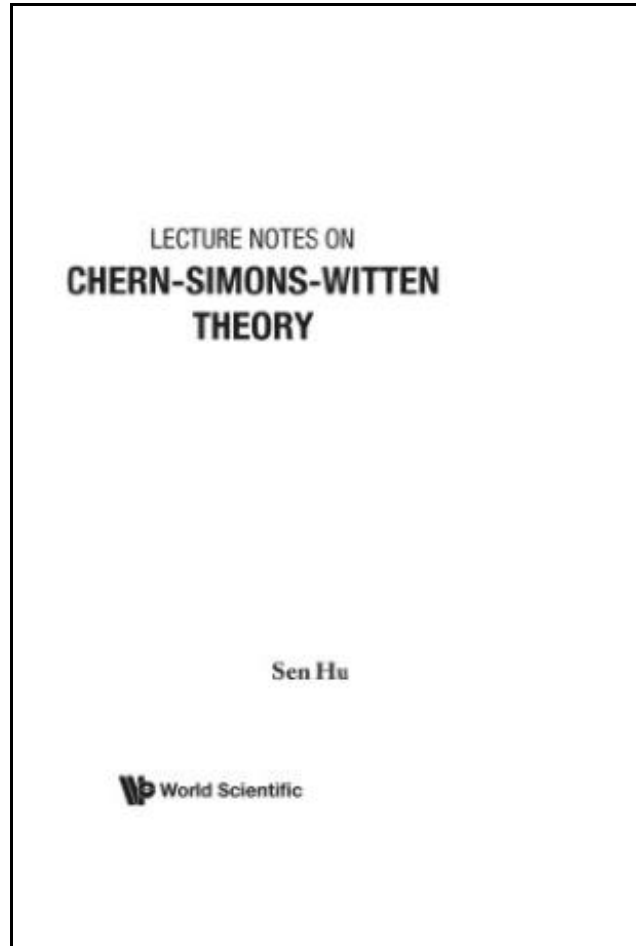


Lecture Notes On Chern-Simons-Witten Theory



Filesize: 8.03 MB

Reviews

Basically no terms to clarify. It can be written in basic terms instead of difficult to understand. I am easily could get a enjoyment of reading through a composed publication.
(Dr. Hazel Ziemann IV)

LECTURE NOTES ON CHERN-SIMONS-WITTEN THEORY

DOWNLOAD



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 Knizhik-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](#)

See Also



The Mystery on the Oregon Trail Real Kids, Real Places

Gallopade International. Paperback. Book Condition: New. Paperback. 160 pages. Dimensions: 7.5in. x 5.3in. x 0.5in. When you purchase the Library Bound mystery you will receive FREE online eBook access! Carole Marsh Mystery Online eBooks are an...

[Save eBook »](#)



The Mystery of the Onion Domes Russia Around the World in 80 Mysteries

Carole Marsh Mysteries. Paperback. Book Condition: New. Paperback. 133 pages. Dimensions: 7.5in. x 5.3in. x 0.4in. When you purchase the Library Bound mystery you will receive FREE online eBook access! Carole Marsh Mystery Online eBooks are...

[Save eBook »](#)



The Day I Forgot to Pray

Tate Publishing. Paperback. Book Condition: New. Paperback. 28 pages. Dimensions: 8.7in. x 5.8in. x 0.3in. Alexis is an ordinary five-year-old who likes to run and play in the sandbox. On her first day of Kindergarten, she...

[Save eBook »](#)



Lans Plant Readers Clubhouse Level 1

Barron's Educational Series. Paperback. Book Condition: New. Paperback. 24 pages. Dimensions: 8.9in. x 5.7in. x 0.3in. This is volume six, Reading Level 1, in a comprehensive program (Levels 1 and 2) for beginning readers. Two nine-book sets...

[Save eBook »](#)



DK Readers Animal Hospital Level 2 Beginning to Read Alone

DK CHILDREN. Paperback. Book Condition: New. Paperback. 32 pages. Dimensions: 8.9in. x 5.8in. x 0.1in. This Level 2 book is appropriate for children who are beginning to read alone. When Jack and Luke take an injured...

[Save eBook »](#)