**Author of the week: Subrahmanyan Chandrasekhar**



**(19th October 1910 to 21st August 1995)**

Subrahmanyan Chandrasekhar was one of the foremost astrophysicists of the twentieth century. He was one of the first scientists to couple the study of physics with the study of astronomy. Chandra proved that there was an upper limit to the mass of a white dwarf. This limit, known as the Chandra limit, showed that stars more massive than the Sun would explode or form black holes as they died. Chandra also developed theories on star atmospheres, black holes, and the illumination of the sunlit sky, star structures and star mass. In 1983, Chandrasekhar was awarded the Nobel Prize in Physics for his work on the physical processes involved in the structure and evolution of stars. Chandra published ten books and served as the editor of the prominent Astrophysical Journal for nineteen years. In 1999, four years after his death in August of 1995, NASA launched Chandra, a x-ray observatory named in honor of Subrahmanyan Chandrasekhar. The observatory studies the universe in the x-ray portion of the electromagnetic spectrum.

*“Science is a perception of the world around us. Science is a place where what you find in nature pleases you..”*– Subrahmanyan Chandrasekhar

**Awards & Achievements**

* Bruce Medal (1952),
* Gold Medal of the Royal Astronomical Society (1953),
* Henry Draper Medal (1971),
* Nobel Prize in Physics (1983),
* Royal Medal (1962),
* Copley Medal (1984),
* Henry Norris Russell Lectureship (1949),
* Padma Vibhushan (1968)

**List of books by Subrahmanyan Chandrasekhar**

(Available in the library)

|  |  |  |
| --- | --- | --- |
| 1 | https://images-na.ssl-images-amazon.com/images/P/0486605906.01.MZZZZZZZ.jpg  | Title: Radiative transferAuthor: Chandrasekhar, S.Publisher: New York: Dover, 1960Call No.: 523.0133 CHA Acc. No.: 010086 |
| 2 | https://images-na.ssl-images-amazon.com/images/P/048664071X.01.MZZZZZZZ.jpg  | **Title**: Hydrodynamic and hydromagnetic stability**Author**: Chandrasekhar, S.**Publisher**: New York: Dover Publication, 1961**Call** **No**.: 532.5 CHA **Acc**. **No**.: 011576 |
| 3 | https://images-na.ssl-images-amazon.com/images/P/0226100871.01.MZZZZZZZ.jpg  | **Title**: Truth and beauty: aesthetics and motivations in science**Author**: Chandrasekhar, S.**Publisher**: Chicago: University of Chicago Press, 1987**Call** **No**.: 530.01 CHA **Acc**. **No**.: 016908 |
| 4 | https://images-na.ssl-images-amazon.com/images/P/0226100979.01.MZZZZZZZ.jpg | **Title**: Plasma physics, hydrodynamic and hydromagnetic stability, and applications of the tensor-virial theorem**Author**: Chandrasekhar, S.**Publisher**: Chicago: University Of Chicago Press, 1989**Call** **No**.: 523.01 CHA **Acc**. **No**.: 016113 |
| 5 | https://images-na.ssl-images-amazon.com/images/P/0226100901.01.MZZZZZZZ.jpg | **Title**: Stellar structure and stellar atmospheres**Author**: Chandrasekhar, S.**Publisher**: Chicago: University of Chicago Press, 1989**Call** **No**.: 523.01 CHA **Acc**. **No**.: 016115 |
| 6 | https://images-na.ssl-images-amazon.com/images/P/0226100952.01.MZZZZZZZ.jpg | **Title**: Stochastic, statistical, and hydromagnetic problems in physics and astronomy**Author**: Chandrasekhar, S.**Publisher**: Chicago: University of Chicago Press, 1989**Call** **No**.: 523.01 CHA **Acc**. **No**.: 015548  |
| 7 | https://images-na.ssl-images-amazon.com/images/P/0226100987.01.MZZZZZZZ.jpg | **Title**: Relativistic astrophysics**Author**: Chandrasekhar, S.**Publisher**: Chicago: University of Chicago Press, 1990**Call** **No**.: 523.01 CHA **Acc**. **No**.: 016114 |
| 8 | https://images-na.ssl-images-amazon.com/images/P/0226101010.01.MZZZZZZZ.jpg  | **Title**: Mathematical theory of black holes and of colliding plane waves**Author**: Chandrasekhar, S.**Publisher**: Chicago: University of Chicago Press, 1991**Call** **No**.: 523.01 CHA **Acc**. **No**.: 016116 |
| 9 | https://images-na.ssl-images-amazon.com/images/P/0198088272.01.MZZZZZZZ.jpg | **Title**: Newton`s Principia for the common reader**Author**: Chandrasekhar, S.**Publisher**: New Delhi Oxford University Press 1995**Call** **No**.: 531 CHA **Acc**. **No**.: 016795 |
| 10 | https://images-na.ssl-images-amazon.com/images/P/0198503709.01.MZZZZZZZ.jpg | **Title**: Mathematical theory of black holes**Author**: Chandrasekhar, S.**Publisher**: New Delhi Oxford University Press 1998**Call** **No**.: 523 CHA **Acc**. **No**.: 016796 |
| 11 | https://images-na.ssl-images-amazon.com/images/P/1860942083.01.MZZZZZZZ.jpg | **Title**: quest for perspectives : selected works of S. Chandrasekhar**Author**: Chandrasekhar, S.**Publisher**: London Imperial College Press 2001**Call** **No**.: 523.01 CHA **Acc**. **No**.: 014121 - 014122 |
| 12 | https://images-na.ssl-images-amazon.com/images/P/9814299588.01.MZZZZZZZ.jpg | **Title**: Scientific autobiography: S. Chandrasekhar**Author**: Chandrasekhar, S.**Publisher**: Singapore: World Scientific, 2010**Call** **No**.: 523.01092 CHA **Acc**. **No**.: 014119 |
| List of books on Subrahmanyan Chandrasekhar |
| 13 | https://images-na.ssl-images-amazon.com/images/P/0349123608.01.MZZZZZZZ.jpg | **Title**: Empire of the stars : friendship, obsession and betrayal in the quest for black holes**Author**: Miller, Arthur I.**Publisher**: London: Abacus, 2005**Call** **No**.: 523.8875 MIL **Acc**. **No**.: 013968 |
| 14 | https://images-na.ssl-images-amazon.com/images/P/9350290294.01.MZZZZZZZ.jpg | **Title**: S. Chandrasekhar : man of science**Author**: Ramnath, Radhika.**Publisher**: New Delhi: Harper Collins Publishers India, 2011**Call** **No**.: 523.01092 RAM **Acc**. **No**.: 008372 |
| 15 | https://images-na.ssl-images-amazon.com/images/P/9814374768.01.MZZZZZZZ.jpg | **Title**: Fluid flows to black holes : A tribute to s. chandrasekhar on his birth centenary **Author**: Saikia, D. J.**Publisher**: Singapore: World Scientific, 2011**Call** **No**.: 523.01 SAI **Acc**. **No**.: 014120 |
| 16 | https://images-na.ssl-images-amazon.com/images/P/0226870553.01.MZZZZZZZ.jpg | **Title**: Chandra : a biography of S. Chandrasekhar ​**Author**: Wali, Kameshwar C.**Publisher**: Chicago: University Of Chicago Press, 1991**Call** **No**.: 523.01092 WAL **Acc**. **No**.: 013962 |
| 17 | https://images-na.ssl-images-amazon.com/images/P/1860940382.01.MZZZZZZZ.jpg | **Title**: S. Chandrasekhar : the man behind the legend**Author**: Wali, K. C.**Publisher**: London: Imperial College Press, 1997**Call** **No**.: 523.01092 WAL **Acc**. **No**.: 014123 |

**Web Resources on Subrahmanyan Chandrasekhar:-**

* Guide to the Subrahmanyan Chandrasekhar Papers 1913-2011

<https://www.lib.uchicago.edu/e/scrc/findingaids/view.php?eadid=ICU.SPCL.CHANDRASEKHAR>

* NobelPrize.org. . Subramanyan Chandrasekhar – Biographical. Nobel Media AB 2020, retrieved from: <https://www.nobelprize.org/prizes/physics/1983/chandrasekhar/biographical/>
* Parker, Eugene N. (2020). *SUBRAHMANYAN CHANDRASEKHAR: October 13, 1910–August 21, 1995.* Biographical Memoirs: V.72,The National Academies of Science Engineering Medicine, retrieved from: <https://www.nap.edu/read/5859/chapter/4>
* Sreenivasan, Katepalli R*. Chandrasekhar’s Fluid Dynamics* Annual Review of Fluid Mechanics retrieved fromhttps://www.annualreviews.org/doi/pdf/10.1146/annurev-fluid-010518-040537
* Editors of Encyclopaedia Britannica (2020). *Subrahmanyan Chandrasekhar.* Encyclopædia Britannica, retrieved from: <https://www.britannica.com/biography/Subrahmanyan-Chandrasekhar>
* Express Web Desk (2017). *Who was S Chandrasekhar?* The Indian Express, retrieved from: <https://indianexpress.com/article/who-is/who-is-subrahmanyan-chandrasekhar-nobel-prize-winner-physics-4897568/>
* Famous Scientists (2020). Subrahmanyan Chandrasekhar, retrieved from: <https://www.famousscientists.org/subrahmanyan-chandrasekhar/> .
* Oral History Interviews that offer unique insights into the lives, works, and personalities of modern scientists

<https://www.aip.org/history-programs/niels-bohr-library/oral-histories/4551-1>

* Subrahmanyan Chandrasekhar Bibliography

<http://www.phys-astro.sonoma.edu/BruceMedalists/Chandrasekhar/index.html>

**Video**

* *NDTV Profit (2014). Great Indians: Professor Subrahmanyan Chandrasekhar. R*etrieved from: <https://www.ndtv.com/video/shows/great-indians/great-indians-professor-subrahmanyan-chandrasekhar-305874>

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**on 21.10.2020**