

# **One Universe:: At Home in the Cosmos**

Charles Tsun-Chu Liu, Neil deGrasse Tyson, Robert Irion

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A new window opens onto the cosmos...

Almost every day we are challenged by new information from the outermost reaches of space. Using straightforward language, **One Universe** explores the physical principles that govern the workings of our own world so that we can appreciate how they operate in the cosmos around us. Bands of color in a sunlit crystal and the spectrum of starlight in giant telescopes, the arc of a hard-hit baseball and the orbit of the moon, traffic patterns on a freeway and the spiral arms in a galaxy full of stars--they're all tied together in grand and simple ways.

We can understand the vast cosmos in which we live by exploring three basic concepts: motion, matter, and energy. With these as a starting point, **One Universe** shows how the physical principles that operate in our kitchens and backyards are actually down-to-Earth versions of cosmic processes. The book then takes us to the limits of our knowledge, asking the ultimate questions about the origins and existence of life as we know it and where the universe came from--and where it is going.

Glorious photographs--many seen for the first time in these pages--and original illustrations expand and enrich our understanding. Evocative and clearly written, **One Universe** explains complex ideas in ways that every reader can grasp and enjoy. This book captures the grandeur of the heavens while making us feel at home in the cosmos. Above all, it helps us realize that galaxies, stars, planets, and we ourselves all belong to One Universe.



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