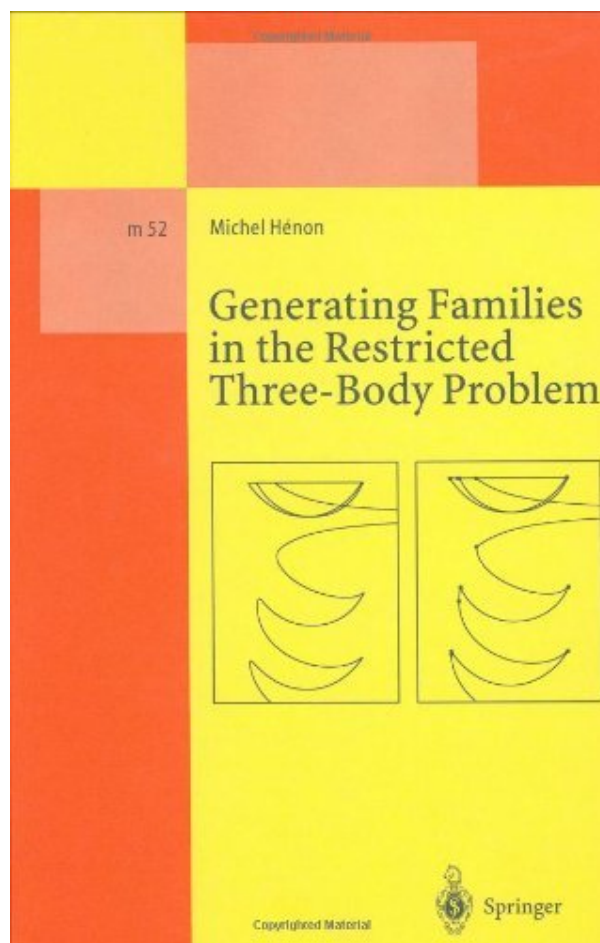
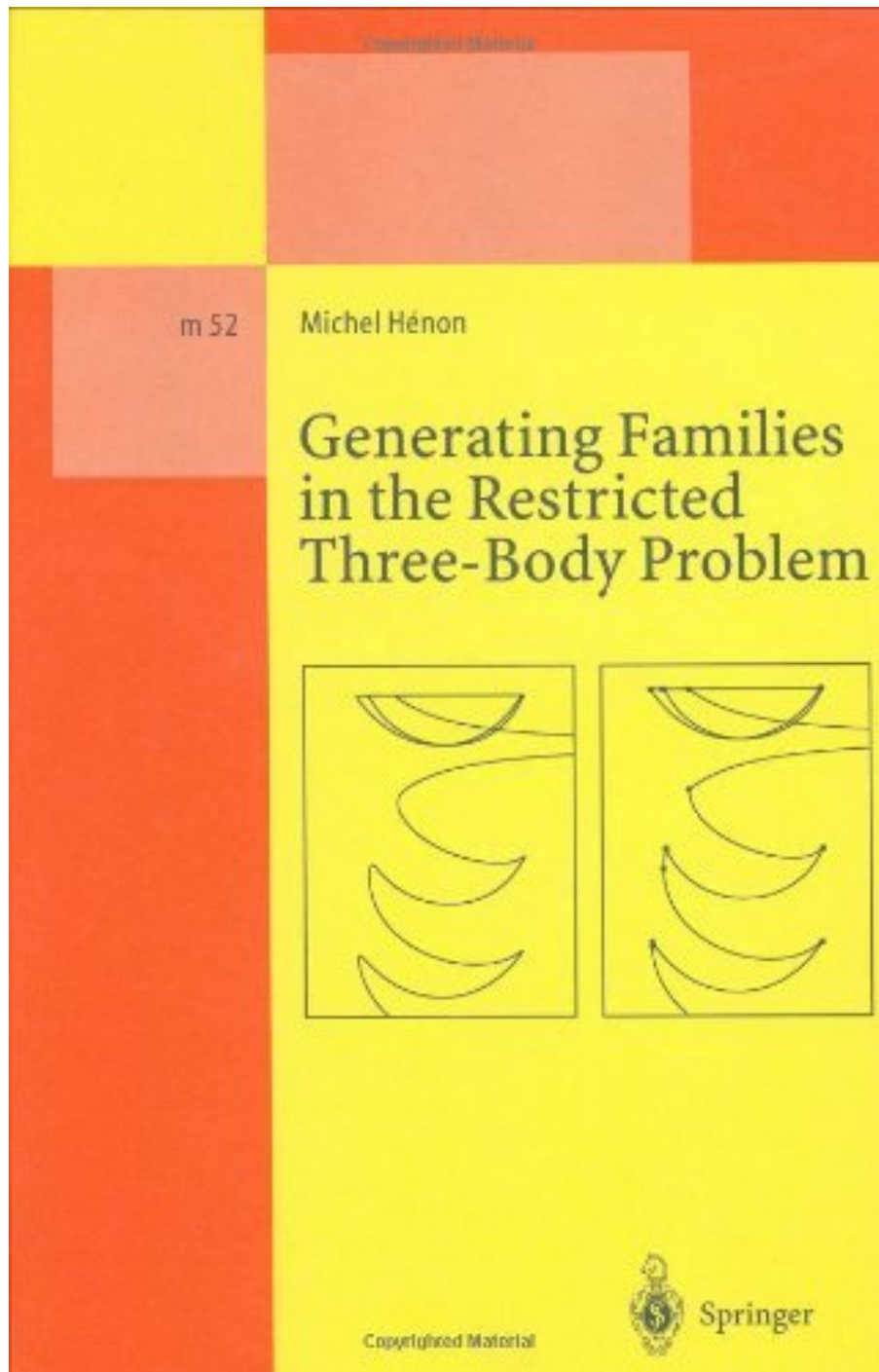


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## Review

From the reviews

"The book is an excellent overview of the state-of-the-art of the restricted three-body problem."

Zentralblatt für Mathematik, 1998

## From the Back Cover

The classical restricted problem of three bodies is of fundamental importance for its applications to astronomy and space navigation, and also as a simple model of a non-integrable Hamiltonian dynamical system. A central role is played by periodic orbits, of which a large number have been computed numerically. In this book an attempt is made to explain and organize this material through a systematic study of generating families, which are the limits of families of periodic orbits when the mass ratio of the two main bodies becomes vanishingly small. The most critical part is the study of bifurcations, where several families come together and it is necessary to determine how individual branches are joined. Many different cases must be distinguished and studied separately. Detailed recipes are given. Their use is illustrated by determining a number of generating families, associated with natural families of the restricted problem, and comparing them with numerical computations in the Earth-Moon and Sun-Jupiter case.

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Faulty scanning of first time derivative dots.

By well-being

I regret that I must give a 1 rating because the x and y components of velocity, which are represented in the book by dots over the x and y, are not distinguished from the coordinate variables, in some cases. That is, the dots are omitted in some but not all instances. This became apparent in a sentence that stated that the variables were (x, y, x-dot, y), where x-dot was written with a dot over the x. The second y should have read y-dot, which revealed that the process of converting the book to digital content had either failed to detect the dots that represented a first derivative, or else a filter had removed some of the dots as apparent visual blemishes.

This review is intended to apply only to the Kindle version, which is defective. (I would give zero stars if I could, since equations that can not distinguish between variables and their first time derivative can not be understood.)

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