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Titolo	Introductory calculus : understanding the derivative // Tunc Geveci
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ISBN	1-60650-855-5
Descrizione fisica	1 online resource (136 pages) : illustrations
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Soggetti	Calculus Derivatives (Mathematics) Libros electronicos.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Co-published with Cognella Academic Publishing. Includes index.
Nota di contenuto	<ol style="list-style-type: none"> <li>1. The foundation of the derivative -- The derivative of a function at a point -- The derivative as a function -- The Leibniz notation --</li> <li>2. Using the derivative for powers and linear combinations -- The derivatives of rational powers of <math>x</math> -- The derivatives of linear combinations -- Higher-order derivatives -- The proof of the power rule for arbitrary rational powers --</li> <li>3. Using the derivatives of sine and cosine -- The derivatives of sine and cosine at 0 -- The derivative functions corresponding to sine and cosine --</li> <li>4. Using the derivative in velocity and acceleration --</li> <li>5. Local linear approximations -- The differential -- The traditional notation for the differential -- The accuracy of local linear approximations --</li> <li>6. Understanding the product and quotient rules -- The quotient rule --</li> <li>7. Applying the chain rule -- A plausibility argument for the chain rule -- The chain rule in the Leibniz notation -- The chain rule for more than two functions -- The proof of the chain rule --</li> <li>8. The problems of related rates --</li> <li>9. The intermediate value theorem -- Newton's method --</li> </ol>

10. Using implicit differentiation --  
Index.

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