



**Constructive Methods for the Practical Treatment  
of Integral Equations: Proceedings of the  
Conference at the Mathematisches  
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Mathematics)**

*G. Hämmerlin, K.H. Hoffmann*

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# Constructive Methods for the Practical Treatment of Integral Equations: Proceedings of the Conference at the Mathematisches Forschungsinstitut ... Series of Numerical Mathematics)

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Hämmerlin, K.H. Hoffmann

$O I 1^{-1}$  durch die Gauß-Quadraturformel  $Q I n n L w 0 f(x 0) * i=1 1 1$  Sei  $R_n := I - Q$  das Fehlerfunktional.  $n |z|1$ , Für eine im Kreis  $Kr I Kr := \{z \in \mathbb{C} : |z| < r\}$  holomorphe Funktion  $f, f(z) = \sum_{i=0}^{\infty} f_i z^i$   $= x \cdot (1. 1) := \sup\{ |a_0| r^i : i \in \mathbb{N} \text{ und } R(q_0) \neq 0\}$ ,  $q_0(x) = \frac{1}{n+1} \int_{-1}^1 f(x) dx$  In  $X_r := \{f: f \text{ holomorph in } Kr \text{ und } |f|_r < \infty\}$  ist  $I \cdot I$  eine Seminorm. Das Fehlerfunktional  $R_n$  ist in  $r(X I^* I r)$  stetig  $I$  und  $f \in U_r \Rightarrow R_n \in I r$ , gilt die Identität  $00 (1. 2) \sum_{i=0}^n f_i z^i$  Dieser Zugang zu ableitungsfreien Abschätzungen des Fehlerterms  $(1 * 3)$  geht auf Hammerlin [4] zurück. 15 Erfüllt die Gewichtsfunktion  $w$  eine der Bedingungen  $w(t) = w(-t)$  (1. 4. a)  $w(t) = w(-t) t^2$  beziehungsweise  $w(t) = w(-t) t^2$  (1. 4. b)  $\sim w(-t) = w(t) t^2$  so gilt mit  $P(x) = (X-X)^* \cdot (X-X)$  für die Fehlernorm  $\|R_n(x)\|$  (1. 5. a)  $\sim \int_{-1}^1 w(x) dx P_n(r)^{-1} r^{-x}$  beziehungsweise  $\|R_n(x)\|$  (1. 5. b)  $\sim \int_{-1}^1 w(x) dx$ .

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